



HONEYWELL **EAST TO REST**

Address The Huge And Fast-growing Mid Segment Needs Around The World

Brochure

Honeywell



WHAT IS E2R?

Modify, Localize, Certify East for East products from the East to suit mid segment needs from the rest of the world.

OUR VISION

Help Honeywell serve the very large and fast-growing mid segment markets all over the world.

OUR MISSION

Develop right product at the right price at the right speed. Be the hub to supply mid segment products for the whole Honeywell.

TARGET MARKETS

Currently serving all High Growth Regions, expanding into mid segments in developed markets as well.



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HONEYWELL SENSING TECHNOLOGY DIVISION, IT HAS ALWAYS BEEN AN INNOVATION PIONEER IN THE INDUSTRY.

Honeywell Sensing Technology Division has been engaged in sensors and switches for nearly 100 years, providing more than 30,000 products, including fast-acting, limit, light touch and pressure switches, as well as position, speed, pressure, temperature and humidity, current and airflow, gas sensors and other products, and is one of the manufacturers with the widest range of sensing and switching products.

Honeywell sensors, switches, and control components are designed and manufactured in strict accordance with technical specifications for better performance, higher efficiency, and greater safety. Each part of the product has enhanced precision and durability, resulting in improved output and durability throughout the product. For our customers, this reduces expenses and operating costs. Our global footprint and channel system allow us to price these products competitively to suit the needs of your chosen application, while we also provide first-time technical support.

Our technical capabilities in the fields of new energy vehicles, medical, environmental, aerospace, transportation, consumer electronics, industrial, logistics and warehousing, and oil and gas mean

that we can provide products and solutions for a range of different applications. But a complete range of products is only one of our characteristics, in addition to which we can also provide professional engineering and value-added services.

Honeywell's sensors and switches can be used in a range of basic and complex applications, while our customer-specific solutions meet the needs of high precision, repeatability and durability in a wide range of industry applications. We provide domain-specific knowledge and technical resources, as well as close working relationships with our customers to develop and deliver cost-effective solutions tailored to each customer's situation. Whether you need original development or a simple change to an existing design, we create expert-level solutions that help you meet the most stringent requirements through world-class product design, technology integration, and customer-specific product manufacturing.

Honeywell Sensing Technologies has been in the sensing and switching business for nearly 100 years and has earned a reputation for product reliability and excellence. Our strong product design, Six Sigma + manufacturing environment and reliable testing facilities enable us to deliver high-quality standard products that can be improved and improved in the future.

- Global service, procurement, and manufacturing
- Industry-leading engineers
- Outstanding device portfolio and solutions
- Committed to tailoring for customers

A globally competitive supplier that can provide a "one-stop-shop" comprehensive service – this is Honeywell Sensing Technologies.

Application Industry

- **New energy vehicles and energy storage**
- **medical**
- **industry**
- **environment**
- **Transportation**
- **consumer electronics, home appliances**
- **Oil and gas**

Thermal runaway detection module



Product Overview

Honeywell's patented battery safety warning sensor developed by patented technology can monitor the abnormal state of the battery to the system at the first time, effectively improve the safety of the whole vehicle, and increase the evacuation time of personnel to the greatest extent possible, and reduce personnel injuries. The ultra-low power design allows the system to ensure that the parking status is still under monitoring conditions and reacts the first time. The combination of pressure and aerosol versions can form a reliable safety redundancy mechanism and effectively improve reliability.

Potential applications

BMS system, battery pack, industrial power management (energy storage)

Product functions and features

- All vehicle specifications
- Ultra-small size
- Ultra-low power consumption
- High precision, low temperature drifting
- It can communicate, has system wake-up function, and is easy to integrate the system
- Configurability can be used to meet the different needs of customers
- It provides CAN output form, which is convenient for customer system access and reliable data transmission

Main series recommended

BAS N Series, BPS N Series

BES/BES LITE battery safety



Product Overview

The BES/BES Lite series is a new generation of battery safety sensors from Honeywell, designed for lithium-ion battery safety applications in new energy vehicles and energy storage. The BES/BES Lite series is specifically designed to detect electrolyte vapor released during the “First Vent” event before thermal runaway, which typically occurs 5 to 15 minutes before the thermal runaway of the monomer. Through early detection, timely warnings can be issued to take countermeasures, which can effectively avoid loss of life and property, and meet safety regulations and requirements in China and overseas.

Potential applications

New energy vehicles, energy storage systems, electric construction machinery, urban air transportation, drones, etc

Product functions and features

- Detect electrolyte leaks at an extremely early stage of thermal runaway and provide early warning to protect lives and assets
- Built-in diagnostic function, combined with patented alarm algorithm, ensures error-free alarms
- Compact design for easy integration and installation in a wide range of applications
- Compatible with all types of lithium-ion batteries and battery pack types

BMS 500A, 700A, 1500A current transmission Sensory



Product Overview

The high-precision measurement method is used to monitor the battery current, and the auxiliary BMS is used to accurately calculate the battery power, extend the battery life, and increase the cruising range. The measurement current can reach 500A, 700A, 1500A. The new CSNV/E 700P series accurately measures small currents with an accuracy of up to 0.3%, and delivers excellent and reliable performance with powerful anti-electromagnetic interference and temperature compensation algorithms.

Potential applications

BMS system, battery pack, industrial power management (energy storage)

Product functions and features

- High precision, low-temperature drift, help customers accurately calculate battery SOC
- Excellent anti-interference ability, suitable for small spaces, and installation cost saving
- A wide operating voltage range and strong self-recovery ability ensure stable and reliable CAN communication
- The installation and software interface are compatible with many products on the market and are easy to replace
- Multiple output options for convenient choices

BMS Current Sensor 1500A



Product Overview

It uses high-precision measurement methods to monitor battery current, assisting BMS to accurately calculate battery power, extend battery life, and increase cruising range. The measurement current can reach 1500Ah, 100% automotive-grade design, fully meet the requirements of ISO26262 Function safety ASILC, help customers improve system safety, and reduce system costs; The CAN output method can seamlessly work with the customer's system and reduce the difficulty of system matching.

Potential applications

BMS system, battery pack

Product functions and features

- Low zero drift high-precision 1500A wide range, accurate measurement and monitoring of the charging and discharging process, escorting battery life and health
- Strong anti-magnetic interference and EMC performance, reliable application in complex system environments
- Compact design, suitable for small spaces, and cost-saving installation
- The wide operating voltage range and strong self-recovery capability ensure stable and reliable CAN communication
- Multiple ID output options

Motor control current sensor



Product Overview

CSHV series current sensors are based on open-loop Hall technology and use Hall-effect integrated circuits to bring stability and reliability to the product. The current sensor detects the working current of the single control line of the motor, optimizes the control timing, achieves the effect of energy saving, and prevents damage to the motor due to overcurrent.

Potential applications

Battery management system, motor control system

Product functions and features

- High accuracy, good linearity, low temperature drift;
- Superior EMC performance ;
- Non-contact current sensor, wireless loss;
- Open-loop current sensor, total error $\leq \pm 2.0\%$;
- 0.5~4.5Vdc analog output;
- Maximum range $\pm 1500A$

BMS Current Sensor 1500A



Product Overview

Honeywell CSNE1000N series current sensors are used in the battery management system of energy storage equipment to ensure accurate calculation of the remaining battery power under non-stop charging and discharging conditions. Based on Honeywell's advanced magnetic sensing technology, the CSNE1000N Series current sensors are powered from a single supply with a CAN bus output and can measure DC currents of $\pm 1000A$. The CSNE1000N series current sensors are reinforced with steel sleeves for mounting holes, with a mounting bore diameter of 5.8 mm and two M5 bolts for a more secure installation.

Potential applications

Current measurement in battery management systems for energy storage devices.

Product functions and features

- It supports 8K high-frequency sampling and square wave processing, which is conducive to the flattening of fluctuations between the power generation side and the grid side of the wind power system, and promotes the consumption of new energy
- It is suitable for UHV transmission and supports 1200V-2500V energy storage scenarios to ensure safe and durable work
- The high accuracy of 0.2% helps improve the overall metering accuracy, accurately calculating the SOC of the energy storage battery within the full temperature range
- The perforation size of the copper bar is larger to meet the needs of high heat dissipation
- Extremely resistant to interference

HPT series high purity



Product Overview

Honeywell's HPT series of high-purity pressure sensors use piezoresistive sensing technology and ASIC signal conditioning and are designed in a stainless steel housing with electrical connections. Its comprehensive temperature compensation and calibration ensure high-precision pressure measurement, making it suitable for use in demanding environments such as semiconductors.

Potential applications

It is suitable for high-purity pressure measurement and control of special gas cabinets, VMBs, VMPs, etc. in semiconductor production lines.

Product functions and features

- The accuracy is $\pm 0.5\%$ FSS under the IEC61298-2 standard, ensuring efficient and stable systems.
- Measurement ranges from -14.7 to 250 PSI and -14.7 to 3000 PSI are available to suit a wide range of needs.
- Works well in ambient temperatures from -20°C to 85°C .
- The use of 316L VIM-VAR material reduces environmental sensitivity and improves product life.
- Strong electromagnetic compatibility, able to operate stably in electromagnetic interference environments, to ensure accurate measurement.

Pressure Sensor



Product Overview

Honeywell GPT series pressure sensors adopt the mature piezoresistive principle and ASIC electronic compensation technology, and are equipped with stainless steel housings and different interface threads, and electrical connectors to match the customer's use environment. All products are temperature-compensated calibrated over the full temperature range of -40°C to 125°C

Potential applications

Industrial applications: hydraulic control of water supply systems, pumps, machine tools, plastic molding equipment, vulcanizing machinery, etc

Transportation: Hydraulic system applications such as construction machinery, construction machinery, agricultural machinery, etc. Commercial vehicles: Brake system pressure detection

Home appliances: Coffee machines, air compressors, and other occasions where pressure detection is required

Product functions and features

- The total error band is small, and the accuracy at room temperature is as high as $\pm 0.25\%$ FSS
- Wide pressure range: 10~700bar
- Analog output, supports current, voltage, and proportional output
- Ports, pressure types, pressure ranges, and outputs are configurable
- Fit for harsh applications, incl. high insulation resistance and EMC performance

Hall IC Digital



Product Overview

The primary package Hall-effect sensor is made of a thin layer of conductive material that produces a high or low voltage output against a magnetic flux perpendicular to the surface of the conductive layer. The product range includes SS, SL series.

Potential applications

Household appliances, automotive transmission position sensing, access control, brushless DC motors, convertible (sunroof) position sensing, sensors for counters, cylinder position monitoring, damper or valve position control panel speed, power window lifting, fan monitoring, fitness equipment, float level sensing, flow sensing, hospital beds, HVAC, industrial processes, magnetic coding, medical equipment, medicine box monitoring, motion detection, motor and fan control, portable medicine delivery carts, printhead position sensing for printers, Robot control, speed and speed sensing, tachometer, tape rotation.

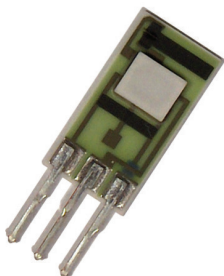
Product functions and features

- Bipolar, bipolar latching, monopolar and all-pole types
- Package materials and forms include plastic radial leads (TO-92), plastic surface mount (SOT-23 and SOT-89)
- It is capable of providing high output current and high-speed response
- Reverse polarity protection is available
- Digital current sinking output
- Optional built-in pull-up resistor
- A variety of operations and release points are available
- It can be packaged on tape and reel
- Chop-free stabilization design, eliminating product noise

Latest series recommendation

- SS40F6, SS41F6, output voltage up to 60VDc, ESD up to $\pm 16\text{KV}$
- SL351LT, SL353LT, micropower, high sensitivity, push-pull output without pull-up resistor, all-pole Hall switch
- SS360-C5 family, highly sensitive, high withstand voltage, integrated reverse protection, latching switch
- SS360-C3 family, highly sensitive, low power consumption, high ESD, latching switch

Magnetic sensor integrated circuit linear



Product Overview

Honeywell linear magnetic sensor ICs are made of a thin layer of conductive material that produces an analog voltage output that is directly proportional to the magnetic flux perpendicular to the surface of the conductive layer. The product features four Hall elements, a design that minimizes the impact of mechanical or thermal stress on the output, thus providing a stable output (SS490, SS491). The product catalog list includes SS39ET, SS49E, SS59ET, SS495A, SS496, SS398AT and other series.

Potential applications

Current Sensing, Length Measurement, Linear or Rotational Position Detection, Liquid Level Sensing, Magnetic Code Reading, Motor Control, Position Sensing, Robot Control, Rotation Coding, Dynamic and Weight Measurement, UAV Gimbal Motor Angle Measurement, etc

Product functions and features

- Linear drive
- Package materials and forms include ceramic SIP, ceramic with solder bumps, plastic radial leads, plastic surface mount, T2 and T3 flat belt types, plastic surface mount (SOT-23, SOT-89B, flat TO-92 types)
- Proportional sinking or source output
- Standard installation center
- Low voltage operation
- Tape and reel packaging

Magnetoresistive integrated circuits AMRs



Product Overview

The first-package magnetoresistive sensor has a built-in reluctance bridge, integrated on a silicon device, enclosed in a plastic housing, and its integrated circuitry responds to low magnetic fields (up to 25 gauss) at distances of up to 1 inch.

Potential applications

Automatic assembly line, “pick and drop” operation, cylinder position sensing in pneumatic cylinders, high-precision speed sensing, high-resolution angle sensing, laptop screen opening and closing sensing, position sensing of material handling equipment, presence or absence detection, rotation position sensing and electric power steering, various in-place detection in household appliance applications, counting in smart water and gas meters, anti-theft and other functions are realized

Product functions and features

- All-polar type
- Double bridge type
- Two-wire, current source, differential output (VF401)
- High sensitivity to extend the sensing distance to 1 inch or more, depending on the strength of the magnetic field
- Packages include perforated and surface mount, and packaging options include tape and reel formats

Latest series recommendation

- SM354LT, SM454LT, high sensitivity, fast response (1KHz response frequency) all-pole switch

Transportation Attitude.



Product Overview

The Nanopower series (Nanopower Series) magnetoresistive (AMR) sensor ICs are ultra-sensitive components, SM351LT, SM353LT widely used in applications with large air gaps, small magnetic fields, and low power requirements, and are packaged in SOT-23.

Potential applications

Industrial: Mobile devices (such as handheld computing devices and scanners), water, electricity, and gas meters, building access control, reed switches in replacing battery-powered security systems, industrial smoke detectors

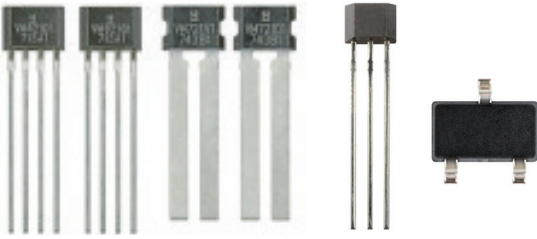
Medical: fitness equipment, infusion pumps, drawer position sensing (such as medical cabinets), hospital beds

White goods: lid, door and drawer position detection, fluid flow; Mid-Size Consumer Electronics: Battery-optimized position sensors

Product functions and features

- High Sensitivity:
 - SM351LT Typical value is 7G and maximum value is 11G; SM353LT Typical - 14G, maximum 20G
 - 225 mm Linear: 0 to 225 mm [0 to 8.86 in]
- Extremely low power consumption:
 - SM351LT average current is 360 nA, SM353LT average current is 310nA
- Supply voltage range: 1.65 VDC to 5.5 VDC; Simplified design
- All-pole sensing: The magnet activates any magnetic pole
- Temperature range: -40°C to 85°C
- Push-pull output: No external pull-up resistor required
- Chop-free stabilization design
- RoHS compliant materials: Meets the requirements of directives 2002, 95, and EC

Magnetic position sensor IC- automotive grade approved



Product Overview

The VM series of general-purpose AMR speed and velocity direction sensor platform chips uses a unique reluctance bridge design principle to detect velocity direction signal measurements of targets with ring magnet encoders. The product range includes potential applications VM421D1, VM821Q1, VM721V1, VM721D1.

The VF360 and 460-C3 series of high-sensitivity, low-power latched digital Hall ICs are AEC-Q100 qualified for demanding automotive applications

Potential applications

VM series (AMR principle): gearbox output shaft speed, direction measurement, ABS wheel speed measurement, industrial bearing speed and direction measurement, industrial encoder orthogonal speed direction measurement, engine crankshaft speed direction detection

VF360, 460-C3 series (Hall principle): Automotive BLDC motor commutation, speed and speed measurement, flow detection

Product functions and features

- Suitable for speed direction or velocity detection only sensor chips
- Orthogonal output optional
- It has nothing to do with the logarithm and size of the magnet poles
- Working environment temperature range: -40~+150°C
- Zero-speed output is optional
- The output signal does not require calibration
- Insensitive to mechanical vibrations
- With input reverse polarity protection
- ESD protection class 6KV
- Compliant with ISO26262 ASIL-B(D) standards
- AEC-Q100H (Grade 0) qualified

AQ7 PID for VOC gas detector



Product Overview

Designed for ambient air and volatile organic compound monitoring around the plant, the AQ7 PID features intelligent digital output, 10.6eV infinite vacuum UV lamp, better performance, lower cost of use, and easy integration by OEMs

Potential applications

Grid microstations, VOC monitoring equipment at plant boundaries, drones, navigation vehicles, etc

Product functions and features

- The self-developed bulb has a lifespan of up to 18,000 hours
- Excellent long-term stability
- Temperature and humidity compensation, strong environmental adaptability
- Digital signal output, design, and integration are simple
- Leakage and signal overflow alarms

AQ7 Series Air Quality Sensors



Product Overview

Designed for atmospheric air quality monitoring, ppb class electrochemical sensors can monitor sulfur dioxide, nitrogen dioxide, ozone, carbon monoxide in ambient air. Compatible with replacing mainstream products in the current market

Potential applications

Grid air quality monitoring of roadside stations, factory boundary monitoring of industrial parks, portable air quality monitoring equipment, UAV air quality monitoring, air quality monitoring of walking vehicles, etc

Product functions and features

- High resolution, ultra-low lower detection limit
- Competitive state-controlled station relevance
- Accurate 1:1 temperature compensation
- Superior temperature and cross-interference performance
- Meets the environmental testing requirements of the new version of CCEP

Photoionization Sensor 4R PID



Product Overview

Honeywell's PPM-grade photoionization sensors monitor VOC concentrations in industrial scenarios and support industrial safety. The sensor is packaged in a conventional gas sensor 4 series package and can detect any volatile organic compound with an ionization energy below 10.6eV, and is used in a wide range of applications, not only in stationary devices but also in portable devices

Potential applications

The safety detection and monitoring of volatile organic compounds in petroleum, chemical, metallurgy, iron and steel and other industries

Product functions and features

- Long Lifespan – The UV lamp of the Honeywell 4R PID has stable UV light intensity and a long working life.
- Long-term stability – Honeywell 4R PID has low zero drift and sensitivity drift, making it suitable for industrial scenarios with continuous monitoring.
- Environmental Adaptability – The Honeywell 4R PID has excellent ambient temperature and humidity adaptability for complex industrial applications

4R NDIR CH₄ Methane Gas Sensor

HSS

Sensor



Product Overview

The 4R NDIR series gas sensors are specifically designed to detect the concentration of methane (CH₄) using advanced non-dispersive infrared (NDIR) technology. Combined with Honeywell's strong technical prowess and experience, this sensor excels in extreme environments, ensuring long-term stable performance, making it an ideal choice for a wide range of industrial and safety-critical applications

Potential applications

It is widely used in industrial settings, oil and gas industries, waste management, and any location where methane leaks need to be monitored to ensure operational safety and environmental protection

Product functions and features

- Excellent measurement performance: with a measurement range of up to 100% LEL \pm 0.1% accuracy.
- Quick Response: Response time (T₉₀) of less than 30 seconds, ensuring prompt response.
- Long-Term Stability: Expected lifespan of over 10 years, suitable for extended use.
- Adaptable: Stable operation in temperatures ranging from -20° C to 60° C and humidity conditions from 0%RH to 85%RH.
- Safety Certifications: Compliant with international safety standards such as IEC 60079 series, ensuring reliable use in potentially hazardous environments.
- Intelligent design: Sensors are digitally traceable and can be intelligently connected to other devices through UART.

4R NDIR CH₄ Methane Gas Sensor

Long life ammonia sensor 4NH3LL-100



Product Overview

Ammonia detection is widely used in many industries, such as the precise control of ambient ammonia concentration in agriculture and aquaculture, the real-time monitoring of ammonia leakage in refrigeration systems, and so on. Different application scenarios have different performance requirements for ammonia detection, and the Honeywell 4NH3LL-100 series is designed to meet diverse needs and capture trace variations

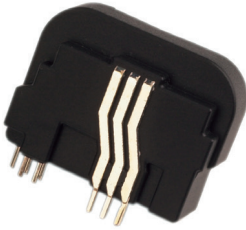
Potential applications

Ammonia leakage detection and monitoring in agriculture, aquaculture, refrigeration and other industries

Product functions and features

- Longer service life – 2 years in ammonia-free contexts and more than 300,000 ppm*h in ammonia-filled environments.
- Higher resolution – The 4NH3LL-100 can achieve a resolution of less than 1ppm, which is sufficient to accurately monitor changes in trace ammonia concentrations.
- Excellent stability – 4NH3LL-100 has excellent response time, repeatability, linearity, and product stability with a long-term drift of less than 2% per month

Closed-loop current sensor



Product Overview

Feedback control is utilized to provide an output proportional to the current being measured. The product has good accuracy, high linearity, and can provide fast response. The output is relatively unaffected by electrical noise. The list of closed-loop current sensor product catalogs starts with CSN

Potential applications

Battery management systems, consumer tools, current feedback control systems, ground fault detectors, HVAC, overcurrent protection, power supplies, robots, power supplies for UPS and telecommunications equipment, frequency converters, wattmeters, power supplies for welding equipment

Product functions and features

- It can sense peak currents up to 1200A
- AC, DC and pulse currents
- Designed with thread and perforation
- Fast response time and measurement frequency bandwidth
- High overload capacity
- A high degree of electrical isolation is used between the primary and secondary circuits
- CE, UL certification; RoHS compliant
- Wide operating temperature range from -40°C to 85°C [-40oF to 185oF]
- Pin forms include single-pole, biased, centered, with deadbolt terminals, Molex, 5-pin, and more

IHM series proximity sensors



Product Overview

It provides a voltage output proportional to the measured current, low power consumption, and high overload capability. The list of open-loop current sensor product catalogs starts with CSC and CSL

Potential applications

Battery management systems, current feedback control systems, ground fault detection, overcurrent protection, power supplies for robots, UPS and telecommunications equipment, frequency converters, wattmeters, power supplies for welding equipment

Product functions and features

- The current sense is up to ± 900 A
- AC, DC and pulse currents
- Low power consumption
- Small size
- A high degree of electrical isolation is used between the primary and secondary circuits
- The main aperture is large
- CE, UL certification; RoHS compliant
- Mounting methods include Molex headers, Gallant headers, and printed mechanical circuit boards (PCBs)

Precision temperature control switch

HSS

Warm and gentle



Product Overview

The Honeywell SCT Series wall-mounted humidity and temperature transmitters feature Honeywell HumidCon™ temperature and humidity sensors, building automation systems that can be used in residential, office buildings, and other built environments to accurately measure ambient temperature and humidity and improve user comfort

Potential applications

Aerospace, diffusion rollers for copiers, duct temperature sensing, engine exhaust gas recirculation systems, engine management systems, fluid or air temperature sensing for heating, ventilation and air conditioning (HVAC) or engine environments, compressors for HVAC, industrial furnaces and stoves, refrigerator compressors, transportation, water heaters, boilers

Product functions and features

- Anti-vibration and shockproof
- Built-in signal processing circuitry can be provided
- Allows monitoring of harsh gas and liquid environments
- Wide operating temperature range
- Provide a system solution, not just a part
- NTC thermistor output available (500 series)
- High accuracy, short response time, and good stability
- A wide selection of housings, resistors and terminals

Precision temperature control switch

Commercial temperature control switches



Product Overview

The products are available in 1 and 2-inch fast-acting bimetallic SPST non-sealed thermostats, with a choice of automatic or manual reset, phenolic resin or ceramic housings, and a variety of different mounting brackets and terminals

Potential applications

Household appliances, automobiles, coffee machines, cooling controls, copiers, fax machines, fire alarms, fireplaces, cold rooms, gas heaters, glue sprayers, heat, smoke detectors, heater controls, humidifiers, ice makers, laser printers, microwave ovens, controls for car mirror heaters, power supplies, refrigeration, sandwich makers, steam stoves, uninterruptible power supply (UPS) systems, water heaters

Product functions and features

- Operating temperatures can be up to 260°C [500°F]
- UL, CSA and other international certifications
- A wide range of installation methods and terminal forms can be selected
- Customized design can be provided
- The temperature is preset before leaving the factory to prevent artificial changes
- Electrical load up to 15 amps
- Gold contacts can be supplied

RTD temperature sensor chip



Product Overview

The products feature platinum-based thin-film thermal resistors (RTDs) that are laser-fine-tuned, highly accurate, highly interchangeable, provide stable, fast, linear inputs, are very accurate, are interchangeable, and require no recalibration. Plastic and ceramic housings, miniaturized enclosures, and surface-mount enclosures, including PCB terminals, are available. The product range includes HEL, 700, HRTS, and TD

Potential applications

Thermal management of electronic components, HVAC, motor load and semiconductor protection, process control, temperature compensation

Product functions and features

- The relationship between resistance and temperature is linear
- Interchangeable
- High stability
- Wide temperature range
- Teflon or fiberglass leads
- Intrinsically nearly linear output provides 8 ohms, oC sensitivity (TD)
- Fully assembled and ready to use without the need for flimsy splicing to extend lead lengths (HRTS, HEL-700)
- Products available in surface mount in industry-standard 0805 and 1206 packages (700)
- SIP package with solderable leads for secure connection to wires or printed mechanical circuit boards (HEL-775, 776, 777)

Thermistor



Product Overview

Changes resistance with temperature changes. This change can occur when the ambient temperature changes, or when an electric current flows through a thermistor to cause it to heat itself. There is a wide range of resistance values to choose from. A variety of packages and styles are available, from leaded packages to surface mount packages

Potential applications

Aerospace, Gas Chromatographs, Instrumentation, Test Equipment, Integrated Circuits, Measurement and Control Applications, Medical Components, Office Automation, Circuit Boards, Semiconductor Devices, Telecommunications, Temperature Control and Indication, Thermal Conductivity Gas Analysis Instruments

Product functions and features

- Extremely fast thermal response
- It is a low-cost alternative to other resistive technologies
- Tolerances as low as +1 %
- It can be used for both temperature monitoring and temperature control
- The surface-mount design takes up little space and can be installed in a “pick-and-place” way
- Extremely stable throughout the entire service life

MICRO SWITCH™ medium limit switch



Product Overview

Available in a small metal package. The midsize product range includes the 14CE, 914 E, CE, LS, BZE6, V6, and SL1

Potential applications

Agricultural machinery, automobile production plants, conveyor belts, cranes, earthmoving equipment, electronic assembly equipment, dump trucks, machine tools, material handling equipment, packaging machinery, printing machinery, platform lifts, processing equipment, robots, ground transportation equipment, textile machinery

Product functions and features

- The housing is robust and small in size
- A wide range of operating features, contacts, actuators, styles, and fitting forms are available
- Direct-acting contacts are available
- Pre-wired terminals or a variety of different quick-connect terminals
- The operating mode can be adjusted in the field
- Standard and low-temperature products are available
- Gold contacts are available

MICRO SWITCH™ Compact Limit Switches NGC Series



Product Overview

The Honeywell MICRO SWITCH™ Compact Limit Switch NGC Series is a medium-duty, configurable switch that uses the same housing and mounting size, and the user can choose between SPDT (Single Pole Double Throw) or DPDT (Double Pole Double Throw) circuitry upon request. The MICRO SWITCH™ NGC series of switches are available in more than 380,000 configurations, are globally certified, and are sealed up to IP67 for potential indoor and outdoor applications

NGC is a member of the 14CE, 914CE, LS, and E6, V6 series of medium-bearing limit switches. Honeywell also offers the MICRO SWITCH™ heavy-duty limit switches and the global line of universal limit switches

Potential applications

Jib position detection, elevator lifts and escalators, machine tools, mobile lighthouses, packaging equipment, vehicle doors, scissor lifts

Product functions and features

- Configurable circuitry for SPDT or DPDT
- Quick-acting, affirmative disconnect contacts
- Silver alloy and gold-plated contact options
- UL, CE, CUL, and CCC certified
- NEMA 1, 4, 12, 13; IP67 sealed
- Metal and plastic case options
- Direct lead or M12 connector output
- Various operating heads and levers
- SPDT contacts have redundant function types

Limit switches SZL-VL series

Product Overview

The SZL-VL-S series of compact limit switches are designed for space-constrained applications with a rating of up to IP67, making them ideal for OEM machinery applications that require rugged construction, reliable switching performance, and limited mounting space. The switches offer larger wiring space, easier wiring, and an optional M12 connector for faster and more efficient terminal wiring.



The SZL-VL-S series switches feature a split design, a die-cast body and head, and a glass-filled fire-resistant thermoplastic housing. The housing is easy to remove, easy to access and install. The operator head has a modular design and is easy to configure to meet different application needs. SZL-VL-S is certified by CCC, CE, UL, etc., and is suitable for various applications around the world.

Potential applications

Exhaust and fume hood door monitoring, lifting mechanism of three-dimensional parking garage, machine position detection, scissor lifting table, escalator position monitoring, electromechanical interlocking, commercial electrical appliances, vending machines, logistics facilities

Product functions and features

- With its superior environmental rating, the SZL-VL-S is widely suitable for a wide range of industrial applications. The SZL-VL-S is rated up to IP67 and can operate reliably in water from 15 cm to 1 m deep without any compromise. Competing products on the market have a protection rating of only IP65 and can only withstand low-pressure water plashing.
- The SZL-VL-S is rated for up to 10 A and can handle heavier loads than competing switches.
- With user-friendly interfaces and suitable for a wide range of applications, this series of switches can help customers overcome the challenges of different industrial environments.
- Certified: CCC, CE and cULus
- Sealing Ratings: IP67, NEMA 1, 12, and 13 Quick-action contacts
- Metal die-cast housing, glass-filled fireproof thermoplastic housing
- Stainless steel operating lever, strip steel or nylon rollers
- Multiple executive agencies Forced disconnect contact (plunger type)
- Classification of use: AC-15 A300 (380 Vac, 0.5 A)
- DC-13 Q300 (220 Vdc 0.05 A)
- Mechanical life: 10 million cycles
Electrical life: 500,000 cycles
- RoHS compliant

ZLS series universal limit switches



Product Overview

Designed for worldwide applications, the ZLS series limit switches are designed to the latest IEC standards and include EN50041 and EN50047 types of limit switches, small EN50047 limit switches with metal housings and double insulating plastic housings, and metal housings with three outlet holes (compatible with EN50047 mounting sizes). Standard ZLS switching circuits include a two- or three-circuit switch with a mechanical structure with a forced disconnect of contacts. ZLS includes features that make installation easier and safer, and customers can benefit from Honeywell's many years of experience serving industry. Most ZLS switches are interchangeable with other brands of EN50041 and EN50047 switches

Potential applications

Conveyor machinery and special equipment, material handling equipment: conveyor belts, elevators, escalators, cranes and lifting machinery, packaging and printing machinery and process processing equipment, textile machinery, plastic injection molding machinery. Best Used: Presence in confined areas, in applications where physical contact is possible, missing detection, including applications requiring high accuracy, repeatability and long life, such as robotics, mat assembly and metal molding, material handling equipment, printing machinery, laundry equipment, mechanical tools, and agricultural equipment. Typical applications include conveyor machinery and special equipment, material handling equipment such as conveyor belts, elevators, escalators, cranes and lifting machinery, packaging and printing machinery, process handling equipment, textile machinery, plastic injection molding machinery

Product functions and features

- Designed according to the latest IEC standards and widely accepted by countries around the world.
- Normally closed contacts ensure forced disconnect, this forced disconnect safety construct
- Sealed to NEMA4, IP67, IP65
- It has a variety of actuators and two commonly used outlet hole thread specifications to choose from.
- Normally open and normally closed contacts are galvanically isolated
- Designed for easy installation
- 33 basic switch unit types
- A variety of actuators are available
- UL, CSA and CE certified
- The surface-mount design takes up little space and can be installed in a “pick-and-place” way
- Extremely stable throughout the entire service life

SZL-WL limit switch



Product Overview

The SZL-WL series limit switches are designed for worldwide applications and are conveniently supported by Honeywell's sales and service facilities around the world. The SZL-WL series limit switches are designed in accordance with the latest IEC standards. EN50041 similar limit switches, metal housings. Standard SZL-WL switching circuits include a two- or three-circuit switch with a mechanical structure with a forced disconnect with contacts. SZL-WL includes features that make installation easier and safer, and customers can benefit from Honeywell's years of experience serving the industry. Most SZL-WL switches are interchangeable with other brands of EN50041 and EN50047 switches

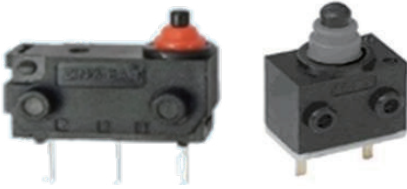
Potential applications

Machine tools: metalworking equipment, presses, conveyor machinery and special equipment, material handling equipment: conveyor belts, elevators, cranes and lifting machinery, packaging machinery and process handling equipment, textile machinery, construction machinery and equipment, transport vehicles and forklifts

Product functions and features

- According to the latest IEC, it is mandatory to disconnect, widely accepted by all countries around the world
- Normally closed contacts ensure forced disconnection, and this forced disconnect safety structure meets the IEC60947-5-1 standard
- UL, CCC, and CE certified
- Sealed to IP67
- It has a variety of actuators and two outlet hole thread specifications to choose from
- Normally open and normally closed contacts are galvanically isolated
- Designed for ease of installation
- A variety of actuators are available
- The contact type defines the structure of the contacts and the number of contacts in the switch
- The Utilization Category defines the type of load current and typical applications

Subminiature sealed micro switches



Product Overview

Ultra-small size, IP67 waterproof rating, 1 million times electrical life switch, can be widely used in vehicles for position detection applications such as door locks, seat belts, sunroof status, etc., and can provide customized design and overall products including wiring harnesses

Potential applications

Vehicle: Door lock switch, seat belt lock, sunroof position judgment Industry: Power tools, valves, etc. position judgment

Medical: Gas chromatograph, biological safety cabinet and other positions to judge home appliances: small household appliances, power tools, etc

Product functions and features

- Small package design
- IP67 package (Leaded version)
- It can be used with logic circuits or low-power systems
- Mechanical life up to 1 million cycles
- Multiple terminal or lead forms are available
- Operating force optional
- Multiple operating handles are available
- Simple installation
- Support customer customization (Line type and connector)

V15W2 explosion-proof micro switch



Product Overview

Explosion-proof certification, IP67 waterproof grade micro switch is a precision and fast action micro switch, the switch can be used in Zone 2 hazard level area, when the switch is operated there is a small arc, and the external environment is relatively harsh. The airtight explosion-proof switch can prevent any flammable and explosive gas from entering the switch and causing danger, so as to avoid causing greater safety hazards. The switches can operate reliably from -25°C to $+85^{\circ}\text{C}$ and are certified according to IEC 60079-0 6th Edition (2011) and IEC 60079-15 4th Edition (2010) IEC Ex DEK 17.0053U

Potential applications

Industry: Ice making systems, central air conditioners, etc. Use non-fluorinated refrigerants Home appliances: Refrigerators, household air conditioners, etc

Product functions and features

- Explosion-proof design and can be used in hazardous environments
- IP67 waterproof rating
- UL, cUL, ENEC, CQC, IEC Ex certified
- Maximum 5A electrical load
- Mechanical life up to 1 million cycles
- Quick connect terminals
- Multiple electrical output forms are available
- Standard package sizes are available for global markets
- Gold contacts can be used with logic circuits or low-power systems

MICRO SWITCH™ ultra-precision and standard V-shaped micro switches



Product Overview

Products are often used for simple or precise on, off, limit, presence, absence, pressure, temperature, and manual operator interface applications. UL, cUL, ENEC, and CQC certified. The V15 series is already the standard in the Asia-Pacific region, and the V7 series is used in applications with high failure costs

Potential applications

Household appliances, commercial equipment, computers, industrial controls, manually operated equipment, office equipment, testing instruments, game console equipment, valves, vending machines, water heaters

Product functions and features

- Package sizes are generally accepted worldwide
- Current ratings from 0.1 amps to 26 amps
- The actuation method, terminal form and operating characteristics can be selected
- The range of electrical load and operating force is wide
- Wide operating temperature range
- The product has a long mechanical and electrical life
- We can provide customized engineering design solutions for customers

MICRO SWITCH™ Micro watertight switches



Product Overview

This series of micro switches is designed for dusty, washdown applications. It is accurate and durable while providing current on/off control for equipment. It can be used in a variety of harsh environments. Customers often choose small size and hermetically sealed micro switches due to the need to detect presence and absence in a compact package design. Precise repetition rate and long life. Products include ZD, ZW, and V15W series

Potential applications

Electrical appliances, automobiles, forklifts, communication equipment, computers, electrical tools, timers, pedal controls, HVAC wall controls, instrumentation, hospital beds, office equipment, valves, etc

Product functions and features

- Degree of protection: IP67 in harsh environments (except terminals)
- The power supply has a large load range
- Special drives are optional
- Special terminals are optional
- Wide temperature range
- Pre-leaded for easy installation
- Global certifications (UL, cUL, ENEC, CQC)

Large micro switches RS series



Product Overview

Honeywell RS Series rail transit micro switches, built-in snap switches with galvanically isolated bridge contacts, can simultaneously control two independent load circuits with independent voltage levels. Double-break contacts ensure excellent reliability even at low electrical loads. Its dual transfer switches ensure that the contacts can still be forcibly disconnected in the event of any potential sticking. It is sealed to IP67 and is potentially suitable for a wide range of indoor and outdoor applications

Potential applications

Jib position detection, elevator lifts and escalators, machine tools, mobile lighthouses, packaging equipment, vehicle doors, scissor lifts

Product functions and features

- SPDT double-break quick circuit
- Contacts have redundant function types
- The contacts are unique to wavy pattern and silver-nickel alloy contacts
- UL, CCC, CE, EN45545 certified
- IP67 sealed
- PBT, PA66-GF30 housing material
- Various terminal block outputs: M3 threaded type, various cables, blades

Valve position detection switch



Product Overview

Honeywell provides a one-stop shop for all types of valves, designed for indoor and outdoor hazardous environments, as well as general environments

Potential applications

- Seaside grain and oil loading dock
- Oil and gas wells
- oil refining
- Fuel storage facilities
- mining
- Petrochemical and chemical plants
- Wastewater treatment facilities
- Pharmaceutical and drug processing plants
- Food and beverage industry
- Pesticide manufacturing plant
- Textile dyeing and finishing factory
- Lead-acid battery manufacturing facility
- Power industry
- Metallurgical industry
- Polysilicon refining and conveying
- Salt Lake Refinement
- Oil and gas production pipeline network
- Paint batching and blending plant

Applied valve type

- Ball Valves (Echo Transmitters)
- Butterfly Valve (Echor)
- Straight Stroke Valves (Echo Sensor, Smart Positioner)
- Various control valves (smart positioners)

Product functions and features

Hall principle position detection module

- It maximizes the needs of customers for various applications with rapid verification, plug-and-play, non-universal design compatibility, and high quality assurance

VPX Series Valve Return Transmitters:

- Aluminum molded enclosures are available for use in a variety of environments and sealing ratings (IP and NEMA), giving the VPX Series the ability to operate in rain, wind, snow, ice, and dust environments
- Fireproof, flameproof, and intrinsically safe (optional) certified to ensure safe operation in a wide range of hazardous area applications
- The SIL3 security integrity level certification gives VPX the highest level of security in its class
- NEPSI, IEC Ex, CE and cULus certified for applications requiring protection against explosive gases, vapours and flammable dust worldwide
- Wide operating temperature range -40°C - 80°C with a lifetime of up to 500,000 action cycles
- Available in both micro and intrinsically safe inductive proximity switches, the VPX series with inductive proximity switches is intrinsically safe (IS).
- Multiple color and angle displays ensure clear visibility from all directions

VPE Series Valve Returners:

- The aluminum molding and stainless steel housings provide a wide range of environments, giving the VPE Series the ability to operate in rain, wind, snow, ice, dust, high corrosion, and high salt spray environments
- Intrinsically safe certified for safe operation in a wide range of hazardous area applications
- The SIL3 certification for safety integrity gives VPE the highest level of safety in its class
- NEPSI and CCC certified for applications requiring protection against explosive gases, vapors, and flammable dusts
- Wide operating temperature range of -40°C - 805°C, service life up to 500,000 operating cycles
- Available in both micro switches (non-explosion-proof) and intrinsically safe inductive proximity switches, the VPX series with inductive proximity switches are intrinsically safe (IS) features
- Provides color and angle display to ensure clear visibility from all directions

Main series recommended

VPX, VPE

Intermediate relay



Product Overview

HRC and HRG are general-purpose relays suitable for the expansion and conversion of signals including power control and various factory machinery and control panels, the HRC series is compact for SPDT and DPDT; The HRG series relays are available in DPDT and 4PDT configurations without LED or with LED indicators, with surge suppression, and with test buttons

Potential applications

All kinds of control panels, elevator control panels, control cabinets, elevator control systems, machine tool controls, factory logic control, test equipment, power transmission and distribution cabinets

Product functions and features

- Compact size, narrow design, and space-saving installation
- The product is laser marked, clear and firm
- Large contact load, HRC series: 1C, 0 12A, 2C, 0 8A; HRG series: 2C, 0 6.5A, 4C, 0 5A
- It can effectively identify AC and DC coils, which is easy to debug and maintain
- CE, CQC certified. Compliant with EU RoHS environmental standards

Proximity switch



Product Overview

Proximity switches, also known as proximity sensors, operate through mutual inductance between metal conductors and alternating electromagnetic fields, providing high solid-state reliability for non-contact presence detection of ferrous metal objects. The detection coil in the sensor probe can generate a high-frequency magnetic field that generates eddy currents within nearby metal objects (actuators, targets). When the magnetic field energy reaches a certain level, it triggers an output signal from the sensor. These sensors can operate devices such as contactors, solenoid clutches, valves, and brakes in any application where metal and magnetic field detection is required. The actuator can be a machine tool holder, a metal workpiece, a cylinder or a drill bit. The proximity sensor is capable of fast and stable operation over the entire temperature range. They are long-life reliable sensors that can provide shorter downtime and maintenance-free sensing applications

Potential applications

Industry: Assembly systems, conveyor belts, farm machinery, construction machinery, escalators and elevators, injection molding machines, machine tools, packaging equipment, factory automation, printing equipment, process control equipment, sorters, textile equipment, woodworking machinery

Transportation: aerial work platform stabilization equipment, assembly system, conveyor belt, hydraulically powered heavy vehicles

Product functions and features

- Stainless steel housing
- Superior reliability, repeatability and precision
- Wide detection range from 1.5mm to 30mm, single and double distance
- Available in both embedded and non-embedded models
- Three-wire DC power delivery scheme, with a choice of NPN or PNP, normally open or normally closed outputs
- Comes with LED indicators
- Direct outlet type or connector type is available
- Reverse polarity protection, short circuit protection, surge absorption
- CE certified

Photoelectric switch



Product Overview

Photoelectric switch, also known as photoelectric sensor, is a kind of sensor that converts luminous flux into electricity, due to the flexible and diverse photoelectric measurement methods, many measurable parameters, non-contact, high precision, high reliability and fast response, so that photoelectric sensors have been widely used in the field of detection and control. HS series photoswitches are available in diffuse, radiative, regressive, background-suppressed, conventional square, and ultra-compact.

Potential applications

Electronics industry, elevators, automated assembly lines, three-dimensional garages, packaging lines, lithium battery production, three-dimensional warehouses, turnstile, etc

Product functions and features

- Three light sources are available: red light, infrared light, laser
- stable performance, large viewing range of indicator light;
- The shell is made of oil-resistant and corrosion-resistant materials;
- There are various detection types: radiative type, regression reflection type, diffuse reflection type, background suppression, limited reflection, etc
- The product has rich specifications and strong versatility
- Reverse polarity protection, short circuit protection, surge absorption
- CE certified

MICRO SWITCH™ Sealed and Standard Rocker Switches



Product Overview

The variety of full-size, small and subminiature pushbutton switches is unprecedented. The products are divided into 1-pole or 2-pole switches, and their circuits are divided into single-throw and double-throw continuous action and instantaneous action circuits. The product range includes FR, SR, MR, MRS, and AML

Potential applications

Agricultural machinery, household appliances, commercial machinery, coffee machines, construction equipment, handheld vacuum cleaners, heavy machinery, office lighting, popcorn machines, portable heaters, power recreational vehicles, testing equipment, telecommunication equipment, washing machines

Product functions and features

- The product is designed to meet industry-standard mounting hole requirements
- LED and neon colors are available
- Circuitry for actuator color, panel seal and lamp is available
- Customer-specific appearances, colors, and legends are available
- The range of power options is wide, from weak to strong switches
- Diode protection for LEDs can be provided or not, and the circuitry of the lamp is independent of the switching circuit (AML)
- Seamless base construction with triple seal design (FR, SR)
- Logic tier rated at 16 A, 125 Vac (MR)



GAS DETECTION AND FIELD INSTRUMENTS

With over 50 years of experience in helping businesses to maximize operational safety and product uptime, Honeywell knows all the ins and outs of gas detection. We pride ourselves on delivering superior quality of support and engineering resources. This way we can ensure faster lead times and provide quick assistance. That's why so many of our customers have been with us for decades — because they know they can rely on us to be there when they need us most. Honeywell offers three categories of Service to meet the needs of any customer requirements.

RAEGuard 3 series



PRODUCT OVERVIEW

The RAEGuard 3 series is a representative work of Honeywell's toxic and hazardous gas detectors, featuring advanced technology that represents future developments. It provides users with safer, more stable, more reliable, and more effective on-site transmitters, suitable for use in indoor and outdoor hazardous environments. It can monitor the severity of hazardous gases in the environment in real time, quickly and effectively protecting the safety of installation sites and production personnel.

The core of RAEGuard 3 - the sensors are rigorously screened and selected from the best to ensure that the detectors can work reliably and stably at all times. Combustible gas detection utilizes long-lasting (>5 years) catalytic combustion sensor technology with high resistance to poisoning, while toxic and oxygen detection employs various compensating electrochemical sensor technologies. Notably, the oxygen detector can be zero-point (nitrogen) calibration-free. Additionally, the long-lasting, poison-resistant, oxygen-free NDIR infrared detection technology allows RAEGuard 3 to be applied in a wider range of harsher gas detection environments.

PRODUCT FUNCTIONS AND FEATURES

security guarantee

- All adopt advanced sensor technology
- Wider temperature and environmental factor compensation ensures the instrument remains reliable and stable at all times
- Adopt redundancy design to ensure no "false alarms" occur
- Clear status indication, allowing perception of environmental danger level even from a distance
- Optional integrated sound and light alarm, continuously reminding with light and sound, ensuring that danger alarm signals are never ignored again

- Optional built-in lightning protection module, ensuring “worry-free” outdoor installation
- IP66/67
- TUV SIL2

easy to use

- Large dot matrix backlit LCD display, featuring bar graph concentration display, digital display, and easily recognizable icons, supports both Chinese and English
- 3 high-brightness LED status displays
- Adjustable standard three-wire 4~20mA source current output to avoid signal “distortion” caused by the circuit
- Optional standard HART® communication protocol for remote diagnosis and setup
- Optional Bluetooth® allows for remote, easy operation and maintenance through a mobile app
- RS485 Modbus digital signal, enabling multi-point networking and remote real-time monitoring
- Supports local or remote sensor installation

self-management

- Lifespan expiration reminder
Reminder for expiration of calibration cycle
- Event reminders such as alarms, STEL/
TWA, faults, and warnings
- Fault code reminder

Universal transmitter

- Simplified installation and replacement
- Reduce material management
- Reduce user inventory and spare parts
- Reduce maintenance

Save on usage costs

- Automatically identifies the type of gas detected by the sensor and supports setting the detection range for toxic gases and oxygen
- On-site hot-swappable oxygen and toxic gas sensors
- Non-invasive, single-person magnetic wand operation, capable of completing all functions such as configuration, calibration, and testing
- Automatic suppression during maintenance

Easy to install

- The integrated mounting base can be directly installed on walls and pipelines, and quick installation accessories are available for easier installation
- A variety of electrical gland options are available, including 3/4” NPTM, 1/2” NPT M/F, G3/4” M/F, G1/2”F, and M20 F
- During installation, the entire circuit section can be removed to provide ample space for wiring
- Plug-in terminal blocks, convenient for wiring

Toxic Gas Monitor VC4



PRODUCT OVERVIEW

The VC4 is based on colorimetric technology with an advanced modular design. Honeywell's VC4 represents the latest in reduced interference, easy maintenance, and low cost of ownership solution for the semiconductor, chemical, solar, and other industries.

KEY FEATURES

Accurate & Reliable

The VC4 offers parts per billion (ppb) level toxic gas detection with Honeywell's Chemcassette® technology which displays well-defined stains even at low concentrations. High-quality detection can reduce false alarms and system downtimes.

Easy to use

The VC4's 7" LED touchscreen provides fast and easy navigation for enhanced ease of use. The Human Machine Interface (HMI) was designed for quick and easy access to critical information. The VC4 has a built-in web server for remote view and control and a USB interface for data extraction.

Low Total Cost of Ownership

The VC4 supports long-life Chemcassettes, up to 180 days (about six months) on Hydrides, Ammonia, and Phosgene gases, reducing the touchpoints for each device. The design also provides easy Chemcassette replacement during service and maintenance.

RAEGuard Lite



PRODUCT OVERVIEW

The RAEGuard Lite by Honeywell is a cost-effective, fixed gas detector designed for flammable, oxygen, and toxic gases. It provides stable and rapid gas detection in both indoor and outdoor environments, enabling real-time monitoring of hazardous gas levels to ensure the safety of the installation site and personnel.

KEY FEATURES

Safe and reliable

- Complies with ATEX/IECEX standards
- Features anti-poisoning flammable gas detector and advanced toxic/oxygen sensor technology
- Offers wider compensation for temperature and environmental factors, ensuring reliability and stability
- Optional built-in surge protection device for safe outdoor installation
- Rated IP66

Diversified output

- Standard 3-wire 4-20mA loop output
- RS485 Modbus RTU digital signals for multi-drop networking and remote real-time monitoring
- Optional standard HART communication for remote diagnostics and configuration*

Easy to install and use

- Integrated design reduces installation costs
- Simple and fast installation with 2 U-type bolts
- Pluggable terminal blocks and PCB module for easy wiring
- Large Dot-matrix LCD display with easy-to-read digits, bar graph and icons
- 3 LED indicators for clear status indications
- Various accessories to choose

Cost-saving for operation and maintenance

- Auto-identify gas types
- Full scale range adjustable
- Contactless operation with magnetic wand
- Intelligent early warning and fault diagnosis prompt
- Reminder for sensor life cycle/calibration cycle

ESDG



PRODUCT OVERVIEW

RAEGUARD ESGD is a single-sensor fixed gas detector designed to monitor the leakage of the toxic (mainly Carbon Monoxide) or combustible gases (mainly Hydrogen) generated by the battery in the energy storage system due to thermal runaway, and is not used for emergency notification, evacuation of people from buildings, or calling emergency services or communication to fire departments.

KEY FEATURES

- **Accurate and Reliable Detection with Professional Industrial-Grade Sensors**
Developed using extensive sensor expertise by dedicated R&D teams and rigorously validated through multiple design and testing iterations;
- **Designed for Harsh Energy Storage Environments**
Features an IP65-rated enclosure, wide operating temperature range (-30°C to 60°C), and altitude capability up to 4000 meters;
- **Flexible Gas Detection Options and Comprehensive Output Configurations**
Detects H₂ and CO with a standard RS-485 interface, Modbus RTU communication protocol, and Bluetooth wireless connectivity;
- **Extended Service Life with Minimal Maintenance**
Includes a two-year warranty and a robust 10-year housing lifespan;
- **Compact Master-Slave Design for Space-Saving and Easy Installation**
Space-saving design allows for side or top mounting without removing the cover;
- **Bluetooth and App Integration for Intelligent and Efficient Control**
Provides real-time data monitoring and supports automated report generation.

SVP2600 SmartLine® Valve Positioner



PRODUCT OVERVIEW

As a member of the SmartLine® product family, the SVP2600 is a high-performance smart valve positioner of international quality. The intelligent valve positioner receives the 4~20mA valve position signal from the control system, and obtains the valve position set value through A/D conversion; At the same time, the actual valve position feedback information is obtained through the position sensor; The two are calculated and processed by the control software, so as to control the action of the pneumatic actuator and drive the valve position to reach the set value. SmartLine® has been fully tested and complies with Experion® GB/T 3836.1-2021 “Explosive atmospheres – Part 1: General requirements for equipment”, GB/T 3836.2-2021 “Explosive atmospheres – Part 2: Explosion-proof enclosures” and “Protected Equipment” has been inspected and qualified by the state-recognized explosion-proof electrical product certification body and obtained the explosion-proof certificate.

INNOVATIVE FEATURES

- High positioning accuracy, up to 0.5% F.S.
- The operation does not need to open the shell, and the high protection level realizes true local operation.
- The structure is simple, the size is small, and it can be installed on a small actuator.
- Automatic tuning, automatic diagnosis, and valve characteristic curves can be configured and set.
- There are few mechanical parts and good vibration resistance.
- Menu settings can be done locally or remotely.
- Low power consumption, low air consumption, low operating costs.
- The two-wire 4~20mA standard signal is adopted.
- HART® (version 7.0).

STD708 SmartLine® differential pressure transmitter



PRODUCT OVERVIEW

As a member of the SmartLine® product family, the STD708 is a high-performance differential pressure transmitter with advanced sensor technology. The STD708 provides extremely high measurement accuracy and stability over a wide range of static pressures and temperatures by combining differential pressure with static pressure and temperature compensation on the sensor chip. SmartLine® is fully tested and Experion® PKS compliant, providing a high level of compatibility assurance and integration. SmartLine® products can easily meet the demanding requirements of pressure measurement applications.

INNOVATIVE FEATURES:

- The calibration range has an accuracy of 0.075% and is optional at 0.05%.
- Stability: 0.040% of full scale for 5 years
- Automatic static pressure and temperature compensation
- Spanning ratio 100 : 1
- Response time as fast as 200ms
- Easy to use and intuitive display features
- External zero, measuring range, and configuration functions
- Complete self-diagnosis function
- Based on ANSI/NFPA 70-202 and ANSI/ISA 12.27.0 integrated dual
Hermetically sealed design for maximum safety
- Excellent static pressure resistance: 40MPa
- Modular design
- The warranty can be extended for an additional period of up to 4 years

STT710/720 SmartLine® Temperature Transmitter



PRODUCT OVERVIEW

As part of the SmartLine® family of products, the SmartLine® STT710 is a cost-effective temperature transmitter, the SmartLine® STT720 is a high-performance temperature transmitter that provides extremely high measurement accuracy and stability over a wide range of process and ambient temperatures. The SmartLine® can easily meet the most demanding temperature measurement requirements.

The SmartLine® STT710 is easy to configure and quick to use. The STT710 can support millivolt, thermocouple, and RTD sensor inputs. The STT721 is a single-input temperature transmitter and the STT722 is a dual-input temperature transmitter that can support millivolt, thermocouple, and RTD sensor inputs. It can provide a standard HART digital communication output.

PERFORMANCE

- The digital accuracy of the Pt100 is up to ± 0.1 °C
- The digital accuracy of K thermocouples is up to ± 0.3 °C
- Stability: The influence of ambient temperature is less than $\pm 0.005\%$ F.S./°C
- EMC conform to IEC 61326-3-1 nd NAMUR NE21 standard

RELIABLE MEASUREMENTS

- Electrical isolation of input and output is 1500V AC
- RTD open and short circuit detection
- TC Open Circuit and Corrosion Detection
- Comprehensive circuit diagnostics with diagnostic information in accordance with NAMUR NE 107
- An extended 4-year warranty is available

LOWER COST OF OWNERSHIP

- Various temperature sensor inputs
- Dual sensor input options
- External correction, ranging, and configuration capabilities
- Reverse power supply protection

MOUNTING OPTIONS

- Can be installed in a field enclosure;
- Other mounting options include wall, pipe, DIN rail, or single-chamber field mount enclosures.

M. Sonic® Medium-low Pressure Ultrasonic Gas Flowmeter



PRODUCT OVERVIEW

M.Sonic® is the latest precision ultrasonic gas flowmeter launched by Honeywell Elster, and is powered by batteries. It is specially designed for gas custody transfer measurement that require high precision and high reliability. It integrates the PTZ/ EVC function, and can convert the volume flow under measurement condition.

M.Sonic® is mainly used in the field of natural gas measurement of city gas and industrial and commercial users. M.Sonic® can replace traditional mechanical flowmeters, reduce the maintenance cost of flowmeter products, improve the operation management efficiency of gas enterprises, and will guide the new development of the metrology industry in the field of city gas.

APPLICATIONS

- Used for the custody transfer measurement of natural gas, in the service of city gas
- and industrial and commercial users.

KEY FEATURES

- The latest product M.Sonic® of Honeywell Elster adopts the leading technology in natural gas metering. The product integrates the temperature and pressure sensors, and has the functions of a volume corrector. Its integrated compact design is convenient for onsite flexible installation. It is powered by batteries, and has low power consumption and a long service life. This can greatly reduce the product use and maintenance cost.



PRODUCTIVITY SOLUTIONS AND SERVICES

Honeywell's Productivity Solutions and Services business creates mobile computers, printers, and data capture devices that improve worker productivity in thousands of companies of all sizes around the world. Honeywell helped pioneer the barcode scanning market in the 1970s, and over the years its new innovations have helped retailers, distribution centers, transportation and logistics, and healthcare organizations achieve significant improvements in efficiency, speed, and accuracy in their operations.

MOBILE COMPUTERS

Future-Proof Operations, Improve Workforce Productivity and Lower Your Total Cost of Ownership

Honeywell mobile computers are purpose-built for specialized operations including:

- Retail-in-store and back-room
- Warehouses and Distribution Centers
- Transportation and Logistics
- Manufacturing
- Healthcare

PRINTERS

Printing With A Purpose

Printing operations, whether they are barcode label, ticket, or tag, should be worry free. That's what Honeywell believes in. Optimizing your print operations throughout the enterprise should be easy to deploy and maximize return on your investment.

From light-duty to ultra-rugged models – both stationary and portable – to print software, media, services, and parts, Honeywell offers an extensive range of solutions for any environment or print application.

BARCODE SCANNERS

We Make Barcode Scanning Easy

Honeywell's highly accurate and adaptable barcode readers offer superior barcode scanning performance and data capture.

Versatile Honeywell barcode readers fit multiple enterprise workflows and offer a variety of configurations. Whether they are positioned at the point of sale, stationed above a warehouse conveyor belt or mounted on a wall for quick accessibility, our intuitive barcode readers give enterprises the freedom to deploy them to fit their business-critical needs.

With industry-leading scanning performance, Honeywell barcode readers can rapidly and accurately read even damaged barcodes to keep workflows optimized and on schedule.

RFID

Track and Manage Inventory, Material Assets and Processes

From lightweight handheld readers for retail environments, to ruggedized units for logistics and manufacturing, we provide a complete line of RFID solutions including handheld and fixed readers, printers, tags, and labels. Integrate these products with Honeywell mobile computers, barcode scanners, software, and services to create comprehensive solutions to track and manage with confidence.

SCANPAL™ EDA52



PRODUCT OVERVIEW

The EDA52 mobile data terminal is a new generation of enterprise-level product in Honeywell's Scan Pal series. It is an Android-based product with high comprehensive performance and wide application fields. It boasts high-speed and smooth operation, large-capacity storage, a high-performance Honeywell scanning engine, and robust 4G full-network connectivity and Wi-Fi dual-band data connection capabilities.

In addition, the EDA52 provides sufficient battery life, with a 4500mAh high-capacity battery capable of supporting an entire work shift or even longer. It features a 5.5-inch touch screen with ultra-high brightness, making it clearly visible even in strong outdoor light. A wide range of accessories and various Honeywell enterprise-level application software are provided to effectively enhance user productivity.

After on-site verification, EDA52 can withstand the test of harsh usage environments and easily meet the needs of different application scenarios, such as hospitals, logistics and transportation, retail distribution, asset inventory, etc. It not only brings efficiency improvements to users but also saves overall costs for their businesses.

PRODUCT FUNCTIONS AND FEATURES

- Equipped with a Qualcomm Snapdragon eight-core processor with a clock speed of up to 2.0GHz, it runs on Android 11 (upgradable to Android 13) operating system and supports memory configurations of 3GB/32GB and 4GB/64GB
- It boasts powerful wireless connectivity, supporting 4G full network compatibility, Bluetooth 5.1, NFC, GPS, and dual-band Wi-Fi (2.4GHz/5GHz)
- Equipped with Honeywell's enterprise-level scanning engine, it can quickly read various types of barcodes, including damaged barcodes and DPM codes

- Supporting fingerprint recognition function, it enables more secure and efficient encryption and unlocking of mobile devices
- Industrial-grade durability, capable of withstanding harsh environmental conditions, can endure a 1.3-meter drop and meets IP67 dust and water resistance standards
- It can be used in conjunction with accessories such as the IH25 handheld UHF RFID reader to meet the needs of various application scenarios

CT32 Handheld Computer



PRODUCT OVERVIEW

The CT32 is a lightweight, rugged mobile computer, featuring high-speed barcode scanning and data collection, a FlexRange™ scan engine, and a long lifecycle. It is ideal for frontline mobile workers in retail, logistics, and warehouse environments.

The CT32 offers 5G and Wi-Fi 6E for seamless communication and real-time data transfer, a FlexRange™ engine for long-distance barcode reading, and various accessories to meet diverse needs. Its robust design and long lifecycle help lower the total cost of ownership. Paired with software such as Operational Intelligence, Smart Talk, and Smart Pay, it's perfect for customers looking to enhance workflow efficiency.

Honeywell mobility edge™, a secure durable, stable platform

Built on the Mobility Edge™ platform, the CT32 is designed for businesses seeking comprehensive solutions. It offers enhanced security, robust performance, and easy deployment.

Security is at the core of the CT32's requirements, with security practices incorporated throughout its lifecycle. It is secure by design, secure by default, and secure by deployment. This includes regular security patch releases, adherence to best programming practices, and continuous validation to mitigate vulnerabilities.

Equipped with the latest processor, the CT32 supports Android 14 and will be upgradable to Android 16 and Android 18. This ensures the CT32 can receive security updates and support for a longer duration than typical consumer or even some ruggedized devices from other manufacturers. Businesses can continue to use their devices securely and effectively for years to come.

The cloud-based Operational Intelligence solution goes beyond traditional MDM tools by analyzing data and converting it into actionable insights.

It helps simplify lifecycle management of mobile assets, increase productivity, and lower costs.

FEATURES AND BENEFITS

- Mobility Edge is a durable, stable, and secure platform for mobility solutions, offering long lifecycles, enhanced security, optimized performance, and faster deployments.
- The sleek design of the CT32 meets both the aesthetic and user experience expectations of end users. Its 6-inch Full HD (1080 x 2160) display enhances comfort, usability, and overall user satisfaction.
- The CT32 is equipped with the latest 5G and Wi-Fi 6E technology for seamless connectivity. Users benefit from the highest bandwidth and lowest latency, delivering an enhanced experience for data-intensive applications.
- Capture data quickly and accurately from up to 35 feet (11m) with Honeywell's innovative FlexRange™ scan engine. The bright green laser dot is highly visible even at long distances and in strong sunlight.
- The CT32 is rugged and lightweight, built to withstand drops from 1.8 meters (6 feet) with the TPU boot, 1.5 meters (5 feet) without it, and 1,000 tumbles from 0.5 meters. It is IP65 and IP68-rated for protection against dust and water.

CK62 Handheld Computer



PRODUCT OVERVIEW

The CK62 is a lightweight rugged mobile computer designed for warehouse and distribution center environments. The CK62 provides reliable data access and data entry with its carefully designed keypads. Equipped with 5G cellular and Wi-Fi 6E capabilities, the CK62 ensures high-speed connectivity, which promotes productivity across different workflows and applications.

The Honeywell CK62 is a 5G and Wi-Fi 6E enabled warehouse solution. Its rugged design is suitable for warehouse environments. Its improved ergonomics design has three keypad choice, alpha-numeric, function-numeric and large numeric keypads for versatile data input. It is featured with Qualcomm 4490 octa-core processor for best performance and product longevity. In the meantime, it supports 5G and Wi-Fi 6E for fast and reliable connectivity.

Mobility Edge – Powerful & Secure Platform

The CK62 leverages the Mobility Edge™ platform which offers durability, stability, security and long-term life cycle availability. It supports Android versions 14 through 181, thereby providing a secure and open operating system to integrate with a wide range of applications. When coupled with Honeywell's Operational Intelligence asset management software, it provides users with critical analytics that allows ease of device management, optimal productivity, all while reducing total cost of ownership (TCO).

Reliable Under Harsh Conditions

Designed to endure the challenges of warehouse operations, the CK62 boasts an IP65 rating for dust and water resistance. It can withstand drops from 1.8 meters and 3000 tumbles, ensuring durability under harsh usage conditions.

FEATURES AND BENEFITS

- The Mobility Edge serves as a robust, stable and secure platform for optimal performance, ease of deployment and long-term life cycle support.
- Powerful hardware platform. The CK62 features a powerful hardware platform based on the Qualcomm 4490 octa-core 2.4GHz processor. It offers memory options of 4 GB/64 GB or 8 GB/128 GB to handle different workloads.
- CK62 is rugged, lightweight and designed to withstand heavy duty use. It includes a Corning® Gorilla® Glass 5 touchscreen and meets MIL-STD-810H standards with a capability to survive drops from 1.8 meters (6 feet) and 3000 tumbles. It is IP65 rated against dust and water
- Equipped with advanced 5G and Wi-Fi 6E connectivity, the CK62 enhances data throughput and supports superior voice and video communications, even in densely connected environments.
- To support scan intensive and long-range operations requirements, the CK62 features Honeywell's innovative FlexRange™ XLR scan engine, enabling effortless barcode scanning from as close as 3 inches (8 centimeters) to as far as 80 feet (24 meters).

ScanPal™ EDA10A Tablet



PRODUCT OVERVIEW

The Honeywell ScanPal EDA10A tablet is a rugged yet lightweight solution for mobile business users who need fast, reliable mobile data access on a high-resolution, 10-inch screen. Featuring 5G cellular and Wi-Fi 6 communications, the EDA10A provides high-speed connectivity indoors and out for users in retail, logistics and field service.

The Honeywell ScanPal EDA10A tablet is a rugged yet lightweight solution for mobile business users who need fast, reliable mobile data access on a 10-inch screen. Featuring 5G and Wi-Fi 6, the EDA10A provides high-speed connectivity indoors and out for users in retail, logistics and field service.

Aimed at business users, the EDA10A comes with a full-service offering, an extensive line of accessories, and compatibility with a rich assortment of enterprise software.

The accessories include desktop and vehicle charge docks, a display dock that enables creation of a workstation with keyboard and mouse, and a large, hot-swappable battery.

The device comes equipped with Honeywell Device Client Pack (DCP) software, support for optional Honeywell Operational Intelligence asset optimization software, Honeywell Smart Talk unified communications software, and certification with 3rd-party Mobile Device Management (MDM) solutions. Extended service plans providing a 3-year extended warranty, fast depot repair services, battery replacement service and Sentinel service to maintain the Android operating system.

Equipped with a Qualcomm Snapdragon octa-core 2.2GHz processor, the EDA10A provides high-performance 5G cellular, Wi-Fi 6, NFC and Bluetooth® 5.1 communications. A big, bright 10-inch full-high-definition (FHD) display, ergonomic industrial design and assortment of carrying and handling accessories boost user comfort and experience. The large, 8,000 mAh battery enables a full shift of uninterrupted work yet can be hot-swapped

with a fresh battery with ease. A highperformance barcode scan engine speeds data capture.

FEATURES AND BENEFITS

- Powerful hardware platform based on the Qualcomm Snapdragon 4350-AC, octa-core processor, 4 GB/ 64 GB, 8 GB/ 128 GB memory options to handle different workloads.
- Rugged and sleek EDA10A is designed to endure frequent drops and vibrations. Gorilla Glass® 5 touchscreen, 1.3 m (4.3 ft) drop per MIL-STD810H standards, 2 m (6.6 ft) drop with protective boot, and IP65 rating against dust and water.
- Embedded with latest 5G and Wi-Fi 6 connectivity, the EDA10A increase data throughput and provides a better experience for voice or video communications even in a highly dense connected environment.
- Removable 8,000 mAh lithium-ion battery that can last for 12 hours or more of straight use without interruption*. Hot-swap supported. *Battery life depends on usage and other factors
- Easily scan barcodes, even damaged ones, with the Honeywell enterprise level S0703 imager. Document images with the 16MP auto-focus camera and make video calls with the 8MP front camera

CS32 Handheld Computer



PRODUCT OVERVIEW

In the current retail environment, where customer expectations are increasing and operational efficiency is important, the CS32 Personal Shopper offers a solution for retailers. The CS32 is designed for self-service shopping, allowing customers to scan and pay for their purchases independently. This can reduce waiting times, improve efficiency, and lower operational costs for retailers. With its hardware, user-friendly design, and adaptable software ecosystem, the CS32 serves as a tool for supporting digital transformation in retail environments.

Purpose-built for retail excellence

CS32 is for modern retail spaces, offering digital engagement, improved labor efficiency, and streamlined customer service. Its ergonomic build and robust features make it an ideal shopping assistant.

Revolutionizing the in-store experience

The CS32 streamlines in-store shopping by integrating with loyalty programs and digital identities, delivering personalized promotions, product suggestions, and fast checkouts directly to customers' devices.

Retailers benefit from advanced self-checkout that increases customer independence and improves store efficiency.

Optimized performance for seamless shopping

The CS32, powered by a QCM 4490 processor, delivers quick scanning, payment, and loyalty app performance. With 8GB RAM, 128GB storage, and Android 14 (upgradable to Android 16 and 18), it efficiently supports real-time processing and future retail technologies.

Fast scanning and front nfc for checkout

Equipped with the N670X scan engine, can perform 1D and 2D barcode scanning at a high speed. Its 30° angled LED engine enables users to scan items from multiple angles without changing their grip. The front-facing NFC reader facilitates contactless transactions

and loyalty card reading, which can support efficient customer service and streamline the checkout process.

All-day battery for nonstop shopping

The CS32 features a 6700mAh battery, providing over *20 hours of use—perfect for busy shopping days. Built-in battery management monitors health, charge cycles, and usage for consistent performance. Swappable batteries enable quick replacement, while a 4.5-hour charge minimizes downtime. Optional single-slot and 3-bay chargers support different store needs.

ENTERPRISE-GRADE CONNECTIVITY

The CS32 is designed to support communication and data transfer in a variety of environments. It features Wi-Fi 6E compatibility for wireless performance in congested networks. Bluetooth 5.3 with BLE supports low-power, high-speed connections to peripherals such as printers, headsets, and payment terminals, which can contribute to an efficient shopping process.

BUILT FOR RETAIL DURABILITY

The CS32 endures 1.2-meter drops and 1,000 tumbles, works from -10°C to 50°C, and has IP30 protection.

SMART SENSORS FOR ENHANCED USABILITY

An integrated range of sensors—including light, proximity, accelerometer, gyroscope, and eCompass—empowers clients to develop intelligent features such as orientation detection, indoor navigation, and service call functionality. These advanced capabilities increase shopper convenience and facilitate sophisticated retail solutions, including guided shopping and targeted in-store promotions.

FLEXIBLE ACCESSORIES FOR SCALABLE DEPLOYMENT

The CS32 is compatible with various accessories to accommodate different retail environments:

- Single-slot Charge Base for use with individual devices
- 3-bay Charge Base for situations requiring multiple devices
- 3-in-1 Unlock Tool for device access
- Enterprise-grade Power Supplies

These accessories are designed to facilitate device management and maintain efficient operations in stores of varying sizes.

SMART CHARGING ISSUE DETECTION

The CS32 quickly detects charging issues, even if the base is powerless, so businesses can identify faulty devices right away. This helps maximize device use, minimize downtime, and maintain a great customer experience.

PD45S



PRODUCT OVERVIEW

The PD45S is Honeywell's new commercial grade industrial printer, which is suited for manufacturing, retail, transportation & logistics, health care, and government applications. The PD45S is available with standard features such as smart printing capability, in which users can configure and finetune settings without the need for a host computer by running apps right inside the printer – minimizing the need to connect to a PC. With Honeywell print platform that supports multiple print languages, PD45S can be an effective alternative to the competing printers available in the market.

Uniquely designed using minimum internal mechanical parts and an all-metallic frame structure, PD45S is sturdy and durable. This gives our printer a tough, compact, and sleek appearance, suitable for use in a wide range of settings & applications. A large glass window design allows users to easily monitor the status of the printer and its consumables. A side opening makes it convenient for ribbon and paper loading. This is also where spent liner can be conveniently collected and removed.

The PD45S runs on Arm Cortex-A7 / 800Mhz processor, 256M memory and 256M DDR3 SDRAM. It features a sophisticated industrial print head which supports both direct thermal and thermal transfer printing modes. Honeywell's patented dual sensor positioning technology supports a dynamic positioning function that ensures a minimum label height of 5mm and vertical position accuracy of 0.5mm. Two sets of adjustable pressure bars and double media guides ensures accurate paper feeding and help to avoid ribbon wrinkles & printing dirt.

FEATURES AND BENEFITS

- **Rugged and Durable**

Suitable for a large variety of working environments with all-metal frame structure.

- **Excellent performance**
Advanced industrial print head ensures high printing quality and durable.
- **Patented Dual-sensor Positioning Technology**
Ensuring the minimum label height of 5mm and the position accuracy of $\pm 0.5\text{mm}$ with the dynamic positioning function.
- **Easy to operate**
Supporting one-key driver installation and facilitating printer cleaning and parts replacement.
- **Complete after-sales services**
Honeywell Global Service Support can provide customers and partners with the best support and visiting service in the industry. Honeywell's services can improve the production efficiency, equipment reliability and uptime indicators.

PD45



PRODUCT OVERVIEW

The PD45 is Honeywell's new commercial grade industrial printer, which is suited for manufacturing, retail, transportation and logistics, health care, and government applications. The PD45 is available with standard features such as smart printing capability, in which users can configure and fine-tune settings without the need for a host computer by running apps right inside the printer – minimizing the need to connect to a PC. With Honeywell print platform that supports multiple print languages, PD45 can be an effective alternative to the competing printers available in the market.

Uniquely designed using minimum internal mechanical parts and an all-metallic frame structure, PD45 is sturdy and durable. This gives our printer a tough, compact, and sleek appearance, suitable for use in a wide range of settings and applications. A large glass window design allows users to easily monitor the status of the printer and its consumables. A side opening makes it convenient for ribbon and paper loading.

The PD45 runs on Arm Cortex-A7 / 800Mhz processor, 128M memory and 128M DDR3 SDRAM. It features a sophisticated industrial print head which supports both direct thermal and thermal transfer printing modes. Honeywell's patented dual sensor positioning technology supports a dynamic positioning function that ensures a minimum label height of 5mm and vertical position accuracy of 0.75mm. Two sets of adjustable pressure bars and a double media guides ensures accurate paper feeding and help to avoid ribbon wrinkles and printing dirt.

FEATURES AND BENEFITS

- **Rugged and Durable**

Suitable for a large variety of working environments with all-metal frame structure.

- **Excellent performance**
Advanced industrial print head ensures high printing quality and durable.
- **Patented Dual-sensor Positioning Technology**
Ensuring the minimum width of 5mm and the position accuracy of $\pm 0.75\text{mm}$ with the dynamic positioning function.
- **Easy to operate**
Supporting one-key driver installation and facilitating printer cleaning and parts replacement.
- **Complete after-sales services**
Honeywell Global Service Support can provide customers and partners with the best support and visiting service in the industry. Honeywell's services can improve the production efficiency, equipment reliability and uptime indicators.

LNX3 Mobile Printer



PRODUCT OVERVIEW

Drive productivity, improve inventory management, and customer service by giving your workers a leading advantage in challenging work environments to help achieve your operational goals.

The LNX3 mobile label and receipt printer brings the power and reliability of Honeywell printers into a durable, lightweight, direct thermal printer meeting or exceeding industry printer specifications. This three-inch, feature-packed, high-capacity label and receipt printer gives the right technology for your business's rapidly changing work environments.

Compact enough to carry or wear during a full work shift, equipped with seamless Wi-Fi and Bluetooth® connectivity, and leading print speeds up to 5 IPS, this printer supports large-volume label and receipt printing requirements in longer intervals helping boost productivity. Keep printing through demanding environments with a long-lasting 2800mAH hot-swap battery allowing for extended operating and standby time.

Effortlessly connect with MFi, NFC pairing, and both Bluetooth and Wi-Fi options. Print from almost any device with Windows®, iOS, and Android™ compatibility.

Enable greater mobility and capability with optional accessories, including a IP54 case with belt clip or shoulder strap, battery charger, spare battery, and more.

FEATURES AND BENEFITS

- Certification to IP54, withstands tumbles up to 0.5 m (1.5 ft) and drops up to 1.8 m (5 ft) with protective case for maximum durability.
- Powered by a 2800mAH hot-swap battery, easily swap the battery without losing connectivity or re-setting the printer.

- MFi certified for iOS and Bluetooth, and NFC to conveniently connect to smart devices.
- 2.4-inch LED color screen and single hand media loading door design simplifies setup and maintenance.
- Comprehensive printer command language support, such as ZPL-II, ESC/P, CPCL, XSim, ESC/POS, and more for easier printing.

PC42E-T Desktop Printer



PRODUCT OVERVIEW

The Honeywell PC42E-T is a compact, high-speed, and high-resolution desktop printing solution designed for mid-volume printing businesses that require reliable and continuous operation. With its array of intelligent features and user-friendly design, the PC42E-T is well-suited for various industries such as retail, transportation and logistics, light manufacturing, and warehousing.

The PC42E-T desktop printer is compact, reliable, and user-friendly, providing efficient printing performance, easy manageability, and maintenance. It helps maximize productivity and minimize costs, making it ideal for light to medium printing applications in various industries such as retail, warehousing, transportation and logistics, and light manufacturing.

Equipped with high-performance print heads offering resolution options of 203 dpi or 300 dpi, the PC42E-T delivers fast and stable high-quality printing with a maximum speed of 6 inches per second. This meets customer demands for enhanced printing accuracy and high-definition labels required for tasks like logistics parcel tracking and marking assets and products.

The PC42E-T includes an ECO button for economy mode that helps reduce label wastage and save calibration waiting time. Its clever design allows easy switching between 0.5 inch and 1 inch ribbon cores and enables multiple applications with a single printer.

Connectivity options for the PC42E-T are diverse, catering to different usage scenarios. In addition to built-in ethernet and USB host, the printer supports a host of accessories like cutters, peelers, Wi-Fi/Bluetooth®, and USB to serial cable. The cutter supports enhanced productivity, while the peeler supports various paper types and offers excellent stripping performance. The optional Wi-Fi/Bluetooth module enables easy deployment and management of a large number of printers, reducing the limitations of physical cable connections.

FEATURES AND BENEFITS

- Certification to IP54, withstands tumbles up to 203 dpi/300 dpi high- performance, fast, and stable printing solution supports both thermal and direct transfer at an affordable price. 128 MB memory for easy fonts/character storage.
- Flexible connectivity options. Besides built-in USB and Ethernet, offers Wi-Fi and Bluetooth for remote printing and device management.
- LED indicator and one feed button for easy operation and printing status monitoring. ECO button helps save time and reduce label cost.
- The compact and user-friendly design of PC42E-T combines functionality with style, suitable for both back- end and front-end environment.
- Honeywell Printer Edge is a smart, connected printer platform with easy setup, quality output, enhanced security, and the simplicity of a single software toolkit for your printer network.

HH492 Wireless Handheld Scanner



PRODUCT OVERVIEW

Designed for business environment requiring a fast 1D /2D scanning solution with industrial grade durability, HH492 series delivers optimal scanning capabilities on traditional barcodes, digital screens, and damaged or difficult-to-read barcodes.

As Honeywell's new-generation 2D image wireless scanner, HH492 integrates GEN7 platform and 1472 module to decode all standard 1D/2D barcodes. The base allows for data transmission through the BLE module while also charging the device. These key features make the HH492 a valuable asset in inventory management in government departments, distribution centers express delivery outlets, retail, where fast barcode scanning and identification are required.

DESCRIPTION

The Honeywell HH492 makes scanning easier and faster helping users quickly obtain data and minimizing input errors, which allows for increased productivity and simplified workflow.

FEATURES AND BENEFITS

- Highly accurate and fast scanning of even damaged and poor-quality barcodes, with an extended scan distance to reach the bottom of the cart without bending and wasted time at point of sale.
- Excellent flexibility and commonality for different customer requirements and various application scenarios. Enhanced scanning performance, including product codes, digital codes, screen codes, government and hotel industry data matrixes and dot matrix codes.
- A longer Bluetooth® range compared to competitive devices enables greater operational flexibility for line busting or peak season satellite POS stations.
- Equipped with a USB data cable and full accessories to meet different application scenarios and facilitate the use.

HF680 Hands-Free Area-Imaging Scanner



PRODUCT OVERVIEW

Honeywell's Orbit HF680 point-of-sale hands free/presentation scanner is the perfect blend of affordability, performance and style.

With the Orbit HF680, retailers no longer have to compromise their budgets to get performance and a modern design. Get it all with Honeywell's Orbit HF680.

Customers will zip through the checkout line with the Orbit HF680's lightning fast scanning of both 1D and 2D barcodes. And the Orbit HF680 minimizes checkout delays by quickly scanning traditionally difficult to read digital barcodes and even damaged barcodes.

The Orbit HF680 scanning is not only fast, it's also unobtrusive. The low profile, recessed LED lights in the scan window light up barcodes without irritating your customers. And when the scanner is not in use, its lighting will automatically turn off.

FEATURES AND BENEFITS

- **FASTER SCANNING**

With its Megapixel sensor and 1Ghz processor, the Orbit HF680's fast scanning will speed customers through the checkout line – even when presented with digital or damaged barcodes.

- **SIMPLIFIED SCANNER INTEGRATION**

Save time by rapidly configuring the Orbit HF680 with Honeywell's EZConfig configuration utility. Simplify installations with OPOS/JPOS drivers that ensure scanner compatibility with various POSs.

- **MODERN STYLING**

The Orbit HF680 provides retailers a scanner that can be displayed proudly at the checkout counter.

- **GREAT PRICE**

Exceptional performance and design at an exceptional price.

HF810 & HF811 Fixed-Mount Scanners



PRODUCT OVERVIEW

The HF81X series is a high-performance fixed barcode reading product designed for industries such as automotive, electronics manufacturing, and FMCG packaging. This product can be integrated into applications like automotive powertrain production lines, automotive parts production lines, FATP lines in the electronics industry, SMT production lines, quality inspection lines, and high-speed FMCG packaging production lines.

The HF81X series fixed-type barcode reader is equipped with a 2MPx image sensor and a high-speed processing chip, achieving a data acquisition speed of up to 60fps. It features multi-colored LED lighting and a variety of optional optical accessories designed to meet the scanning needs of different customers in various applications. Equipped with a high-speed liquid auto-zoom lens, it can automatically and quickly zoom from a working distance of 100mm to over 1000mm. Whether it's tiny DPMs on electronic components, damaged printed barcodes on cargo packaging boxes, or striker DPMs on automotive engine parts, it can efficiently and stably identify them.

HF81X, paired with the brand-new Honeywell automatic learning algorithm, achieves intelligent, efficient, and accurate application configuration. Whether it's stationary barcode reading or high-speed motion reading, it provides an excellent user experience for customers. With highly innovative multi-configuration parameters, it supports multi-program storage functionality and enables free control switching between the device and remote ends, providing a flexible solution for the flexible requirements of modern manufacturing.

For customers with a high degree of automation, HF81X can support the reception of network cloud data or control of IO points. It can also achieve quick switching of product types directly through buttons on the Edge side. The HF81X series supports RS232, RS485, and IO interfaces with 2 inputs and 3 outputs. It also supports

TCP/IP, ProfiNet, EtherNet IP, and Modbus TCP protocols, enabling our products to seamlessly connect to industrial automation applications that require high real-time performance, such as automotive assembly lines.

FEATURES AND BENEFITS

- **Leading scanning performance**

Equipped with a 2MPixel image sensor, a frame rate of 60fps, a high-speed processing chip, and Honeywell's industry-leading decoding algorithm, it greatly enhances the efficiency of data collection on the production line.

- **Excellent optical properties**

Using an auto-zoom lens can achieve automatic and rapid zooming over a wide working distance range from 100mm to over 1000mm, providing configurations with multiple color light sources and a rich selection of optical accessories, covering most industrial production line data acquisition scenarios.

- **Intelligent configuration method**

The brand-new Honeywell automatic learning algorithm achieves intelligent, efficient, and accurate application configuration, providing an excellent user experience for both stationary barcode reading and high-speed motion reading.

- **Convenient software tools**

The brand-new DataMax software significantly reduces the difficulty for customers in using visual code readers, and these intelligent software tools greatly simplify the setup and installation of the HF81X series.

- **Rich communication protocols**

Supports RS232, RS485, integrates an Ethernet interface, supports 2-in-3-out I/O interface, and supports TCP/IP and ProfiNet EtherNet IP, Modbus TCP protocol

- **Professional industrial design**

Provide a rotatable tail design that can be flexibly installed into various automated production lines, without fear of any spatial constraints, achieving Industrial protection level of IP65

XENON 197x Series



PRODUCT OVERVIEW

Xenon 1970 integrates Honeywell's latest illumination technology and AI decoding algorithms, enabling faster and more accurate recognition of challenging DPM codes in manufacturing – including low contrast, curved surfaces, reflective materials, damaged codes, dot peen DPM, etc.

Xenon 1970 has the unique optical design allows reading of ultra-high density barcodes, with a minimum readable size of 2mil DataMatrix.

Xenon 1970 has optimized for various DPM barcode types, the Xenon 1970 is highly competitive in manufacturing scenarios and is widely applicable in: Electronics manufacturing, Automotive and auto parts industry, Lithium battery production, Photovoltaic (solar) industry.

FEATURES AND BENEFITS

- **Innovative Illumination Design**
Enables coverage of nearly all types of DPM (Direct Part Marking) barcodes. It can quickly and accurately read low-contrast codes, curved or rounded surfaces, highly reflective materials, damaged or incomplete codes, and dot peen DPM.
- **Newly Designed Scanning Platform with AI Algorithm**
The combination of a redesigned scanning platform and intelligent AI decoding algorithm delivers a significant leap in scanning speed and performance for customers.
- **Advanced Optical System**
Supports reading of ultra-high density barcodes commonly found in electronics manufacturing. Minimum readable density reaches 1.5mil (1D) and 2mil (2D).
- **Stable Hardware Platform with New Industrial Design**
Built on the reliable Xenon series hardware platform and enhanced with a fresh exterior design, making it more competitive in light industrial and commercial markets.

- **Honeywell Scanner Management Utility (SMU)**
Provides a comprehensive solution that automates the deployment and updating of scanners across various environments.

IH45 RFID Handheld Reader



PRODUCT OVERVIEW

Today retailers, supply chain and transportation and logistics managers are under intense pressure to closely track and manage inventory and shipments to ensure the right material is in the right place at the right time.

Stores with inaccurate inventory can experience frequent out-of-stocks, lost sales and poor customer service, thereby negatively impacting customer loyalty. Compensating with excess safety stock can lead to markdowns, resulting in lower overall profit margins. An imprecise inventory count also hampers the ability to offer omnichannel experience.

Most organizations that use manual or barcode workflows for inventory do so infrequently because these methods are time consuming and labor intensive.

Transportation and logistics workers can instantly capture the information of incoming shipments and identify the right destination dock through IH45; any exceptions can be handled instantly. With Tag Finder mode, the IH45 can easily pinpoint the location of a specific package, pallet or box. When a truck arrives with an incoming shipment, a dock worker can quickly identify which pallet(s) need to be removed.

The new Honeywell IH45 RFID reader, combined with RFID tagging, offers an easier solution to keep track of high moving inventory with less effort. Easy to use and ergonomically balanced, when paired with a Honeywell mobile computer, the IH45 offers fast, accurate UHF RFID inventory capture and convenient, integrated 1D/2D barcode capability.

IH45 has features like tool less battery change without having to remove mobile device, direct USB connection to mobile device and multiple charging options.

FEATURES AND BENEFITS

- High tag read rate increases efficiency and reduces costs.

- Single charging station for Reader and Computer makes it easy and faster to charge.
- Demonstrated ergonomic and balanced design enables comfortable, all-day use.
- Enhanced read range, increases productivity and decreases manual effort.
- Easy to remove and insert new battery.

Please Note:

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Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.

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