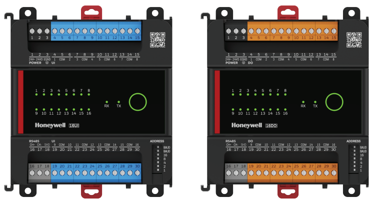
Honeywell

IO扩展模块
IP Unitary

安装指导



PUC16000-EM2 PUC00016-EM2

本产品必须由专业人士安装

警告:

1. 电击危险，安装维护前请务必切断电源。
2. 安装前请认真阅读本手册，不按照说明操作会造成设备损坏或者人身伤害。
3. 本产品应安装于标准的电气箱内，并使用Class 2变压器供电。
4. 所有的接线应该满足当地的电气法规要求。
5. 检查本手册中的额定值以及产品上的额定值，确认该产品适合您的应用。
6. 变压器的一次侧推荐采用过载保护。
7. 保证设备的物理安全，只有授权的人员才能接触到设备及总线。
8. 保证设备的网络及上层控制器，安装部署，运维管理的安全性，详情参考上层控制器安全手册。
9. 保证设备处于隔离的内部网络。

产品型号:

型号	描述
PUC16000-EM2	IO扩展模块，UIx16
PUC00016-EM2	IO扩展模块，DOx16

安装前请确认是否包含以下附件:

- 控制器 数量：1
- 控制器安装指导（本手册） 数量：1

使用环境:

存储	-40°C - 65.5°C
运行温度	0°C - 55°C
湿度	5%RH- 95%RH,不凝露
防护等级	IP20
污染等级	2

电气规格:

额定电压	24VAC, 50/60Hz
PUC16000-EM2 功耗	7VA MAX
PUC00016-EM2 功耗	5VA MAX (仅控制器) 总输出功率不得超过75VA

产品中有害物质的名称及含量:

部件名称	有害物质					
	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
塑料件	O	O	O	O	O	O
端子	X	O	O	O	O	O
电路板组件	X	O	O	O	O	O

本表格依据SJ/T 11364的规定编制。

O：表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

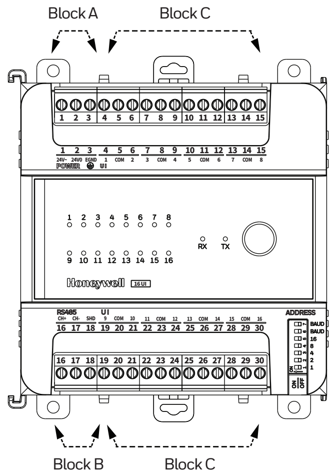
X：表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。

未列入表内的其他部件，皆不含任何超出限量要求的限制使用物质。

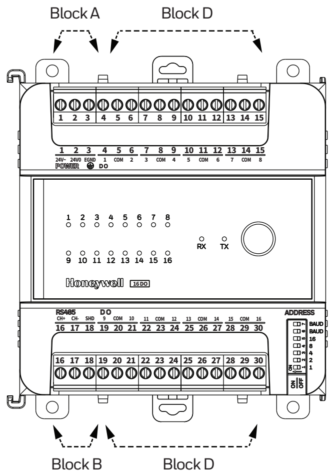
WEEE指令2012/19/EC废弃电气和电子设备指令

在产品寿命结束时将包装和产品丢弃在相应的回收中心。不要用通常的国内垃圾处理方式处理该产品。不要焚烧该产品。

接线及端子定义

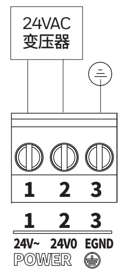


PUC16000-EM2

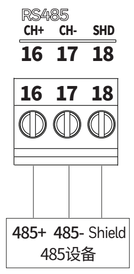


PUC00016-EM2

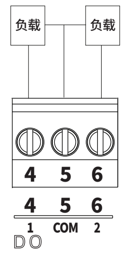
电源 (Block A 黑色)



通讯485 (Block B 灰色)

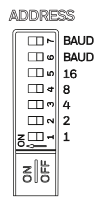


DO数字量输出 (Block D 橙色)



拨码开关(二进制编码)

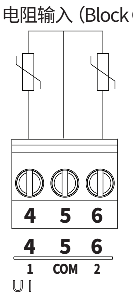
拨码拨到"ON"位置有效
1-5位拨码对应低位到高位,用于设置地址



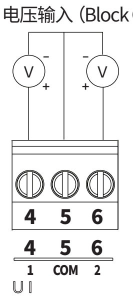
6-7位拨码用于波特率调节
(默认值38400)

拨码6	拨码7	波特率
off	off	38400
on	off	19200
off	on	9600
on	on	4800

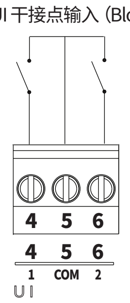
UI 电阻输入 (Block C 蓝色)



UI 电压输入 (Block C 蓝色)



UI 干接点输入 (Block C 蓝色)



接线注意事项:

1. 通讯 485:建议采用18-22AWG屏蔽双绞线。
   单股实芯或多股绞合铜线,剥线长度7-8mm,
   接线端子螺丝扭矩:0.5Nm。
2. UI, DO, 电源:建议采用18-22AWG线。
   单股实芯或多股绞合铜线,剥线长度7-8mm,
   接线端子螺丝扭矩:0.5Nm。

STA LED 状态

STA LED 状态	控制器状态说明
不亮	未供电，LED损坏，供电不足，初始上电，引导程序固件损坏。
常亮	没有足够的电源启动。
慢闪烁模式1- 1秒亮，1秒灭	正常工作状态。
慢闪烁模式2- 0.5秒亮，0.5秒灭	设备报警中，下载配置中，配置丢失。

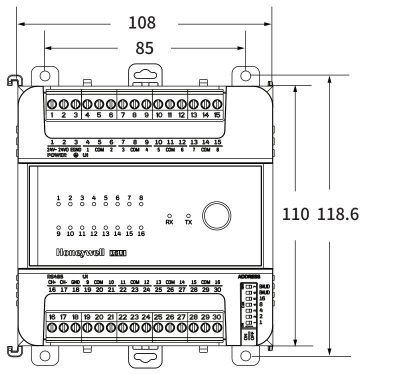
TX LED 和 RX LED 状态

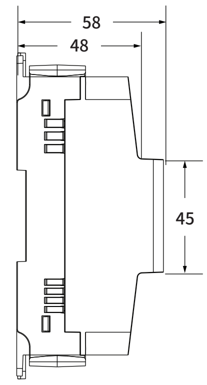
LED 状态	通讯状态说明
灯灭	对应的RS485通道没有通讯。
RX 闪烁（绿色）	对应的RS485通道在接收数据。
TX 闪烁（绿色）	对应的RS485通道在发送数据。

IO LED 状态

分类	IO LED状态说明
DO	16个DO通道，每个通道对应一个LED。 当DO输出时为ON时，对应通道LED亮，否则LED不亮。
UI	16个UI通道，每个通道对应一个LED。 1）当UI 配置为DI，连接在端口的电阻小于500欧姆时，对应通道LED亮，大于12K欧姆时，对应通道LED不亮。 2）当UI配置为电压或电阻模式，并且没有报警时，对应通道LED亮，否则LED不亮。

产品尺寸（单位：mm）

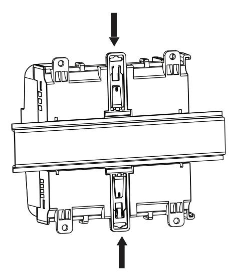




产品安装

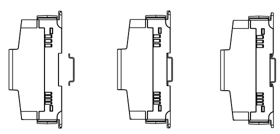
安装说明：

- 可拆卸端子，让产品安装维护更加容易。
- 控制器必须安装在有足够空间进行布线，维修和拆卸的位置。
- 产品支持导轨安装，导轨规格：EN50022 7.5mm X 35mm。



安装步骤：

1. 拉出控制器上下的两个卡钩，并下压控制器，使控制器贴合导轨。
2. 推入上下两个卡钩，固定控制器。
3. 卡钩推入后如图3所示。



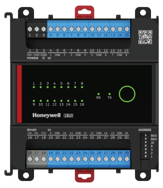
1 2 3

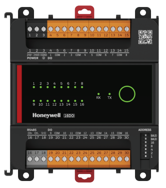
Honeywell

霍尼韦尔环境自控产品（天津）有限公司
地址：中国天津经济技术开发区南海路158号
说明书如有变动，恕不另行通知。
提交漏洞途径：http://www.honeywell.com.cn/about/contact-us/vulnerability-reporting

3014-7089 Rev.A

IO Extended Module
IP Unitary
INSTALLATION GUIDE


PUC16000-EM2


PUC00016-EM2

The Installation should be carried out by an electrician.

WARNING:

1. Disconnect power outage before installation and maintenance to prevent electrical shock.
2. Read instruction carefully, failure to follow instruction will damage the product or cause a hazardous condition.
3. The controller must be installed in the standard electric box and get power from class 2 transformer.
4. All wiring must comply with national and local electrical code regulations.
5. Check the nominal parameter of the controller with the installation guide and make sure the controller is suitable.
6. Overload protection is recommended for the primary side of the transformer.
7. Ensure the security of the device physical connection, only authorized user can get access to the device and its service.
8. Ensure the device network as well as associated upper layer controllers to be deployed and maintained in such a manner complied with group security policy. please refer to the user instruction of upper level controller for detail description.
9. Ensure a safe and secure network environment isolated from external connection for the device.

Model Name and Information:

Model	Description
PUC16000-EM2	IO Extended Module, UIx16
PUC00016-EM2	IO Extended Module, DOx16

Pre-installation Checklist:

Check to make sure your package includes the following items:

- Controller 1 SET
- Installation guide 1 PCS

Product application environment:

Storage Temperature	-40°C - 65.5°C
Operation Temperature	0°C - 55°C
Humidity	5%RH - 95%RH, Non condensation.
IP	IP20
Pollution Degree	2

Electrical:

Voltage	24VAC, 50/60Hz
PUC16000-EM2 Power Consumption	7VA MAX
PUC00016-EM2 Power Consumption	5VA MAX (Controller only) Total output power must not exceed 75VA.

Hazardous Substances and Content of the Product:

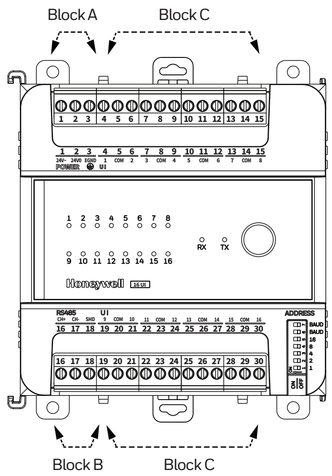
Parts	Hazardous substances					
	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
Plastic Parts	O	O	O	O	O	O
Terminal	X	O	O	O	O	O
PCBA	X	O	O	O	O	O
This table is based on SJ/T 11364.						
O: The hazardous substances content in the related part are less than the limit in GB/T 26572 standard.						
X: The hazardous substances content in the related part are more than the limit in GB/T 26572 standard.						

Other parts all conform to China RoHS requirements.

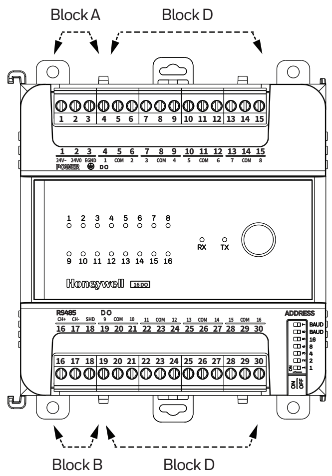
WEEE Directive 2012/19/EC Waste Electrical and Electronic Equipment Directive

At the end of the product life, dispose of the packaging and product in a corresponding recyclin centre. Do not dispose of the unit with the ususal domestic refuse. Do not burn the product.

Terminal Definition and Wiring

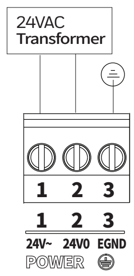


PUC16000-EM2

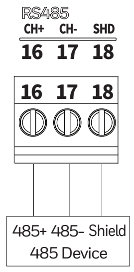


PUC00016-EM2

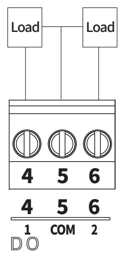
Power (Block A Black)



Communication 485 (Block B Grey)



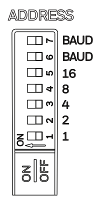
DO Digital Output (Block D Orange)



DIP Switch (Binary Coding)

Switch "ON" is active.

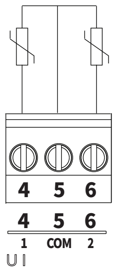
1-5 switches correspond to the low to high digits and are for address setting.



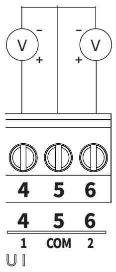
6-7 Switches are for baud rate setting (38400 defaulted)

Switch 6	Switch 7	Baud Rate
off	off	38400
on	off	19200
off	on	9600
on	on	4800

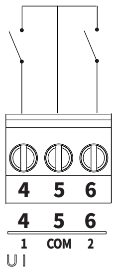
UI Resistance Input (Block C Blue)



UI Voltage Input (Block C Blue)



UI Dry Contact Input (Block C Blue)



Wiring Note:

1. Communication 485: 18-22AWG shielded twisted pair wire is recommended. Single solid wire or multi-stranded twisted copper wire, strip length 7-8mm. Terminal screw torque: 0.5Nm.
2. UI, DO, Power: 18-22AWG shielded twisted pair wire is recommended. Single solid wire or multi-stranded twisted copper wire, strip length 7-8mm. Terminal screw torque: 0.5Nm.

STA LED Status

STA LED Status	Controller Status Description
Off	No power supply; LED damaged; low voltage to board; first second of power up; or boot loader damaged.
On	No sufficient power supply to start up.
Slow Blink Mode 1 1 second on, 1 second off.	Controller operating normally.
Slow Blink Mode 2 0.5 second on, 0.5 second off.	Controller alarm is active; controller in process of download; controller lost its configuration.

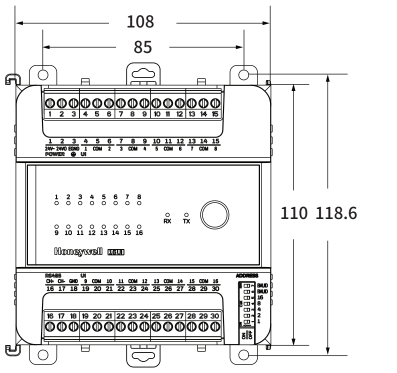
TX LED and RX LED Status

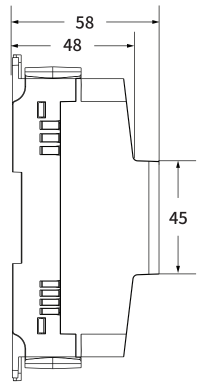
LED Status	Communication Status Description
Off	The corresponding RS485 channel is not communicating.
RX Blink (green)	The corresponding RS485 channel is receiving data.
TX Blink (green)	The corresponding RS485 channel is sending data.

IO LED Status

Product	IO LED Status Description
DO	16 DO channels, each corresponding to a LED. When the DO output is ON, the corresponding channel LED lights on, otherwise the LED does not light on.
UI	16 UI channels, each corresponding to a LED. 1) When the UI is configured as DI and the resistance connected to the port is < 500 Ohms, the corresponding channel LED is on, > 12000 Ohms, the corresponding channel LED is off. 2) When the UI is configured in voltage or resistance mode with no alarms, the corresponding channel LED is on, otherwise the LED is off.

Dimensions (mm)

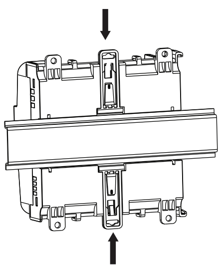




Mounting

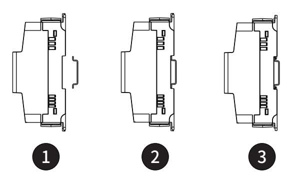
NOTE:

- Removable terminal blocks are used for all wiring connections, which allow the installation and maintenance easier.
- The controller must be mounted in a position that allows clearance for wiring, servicing, and removal.
- The controller mounts to DIN rail (standard EN50022 7.5mm X 35 mm).



Installation

1. Pull out the two rail hooks on the top and bottom of the controller and press down on the controller so that the controller fits on the DIN rail.
2. Push in the top and bottom rail hooks to secure the controller.
3. The rail hooks are pushed in as shown in Figure 3.



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3014-7089 Rev. A