

Technical Sheet For EIB/KNX Room Controller Premium

AMRP-41/00.2

The worldwide standard for home and building control

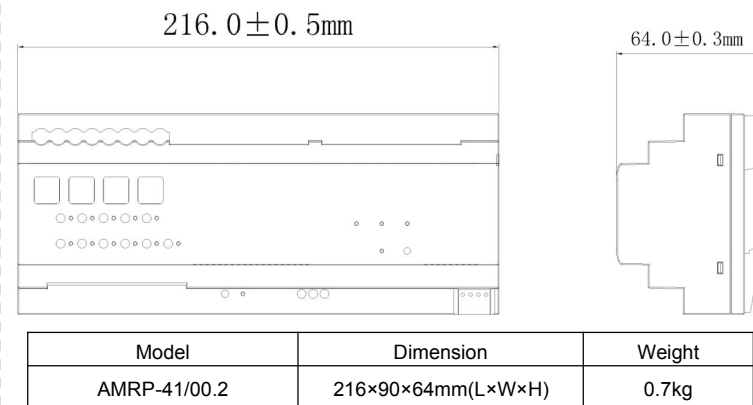
CHARACTERISTICS

- 20 channels Dry contact input. Functions of each channel are switch sensor, dimming sensor, value output, shutter control and delay mode
- 10 channels Switch output. 4ch are manual operation (mechanical switch) available, the Max. Load current is 16A; the others are electrical switch available, and the Max. Load current is 10A. all channels have the function of staircase lighting, light flashing and switch delay. also logic and force operation are available
- 2 channels Shutter output. Max. load current is 10A; operating shutter and louver adjustment are available; automatic function and sun protection are available; safety operating are available;
- 2 channels 0/1~10V dimming output. relative dimming, brightness dimming and staircase lighting are available
- 1 channel Fan Coil output. 3 level fan speeds, Max. current is 10A. that can be reused for 3ch switch actuator; 4 pipes HVAC control system, Max. load current is 2A; PWM and continuous control both are available
- RS485 convert function is available
- KNX IP convert function is available

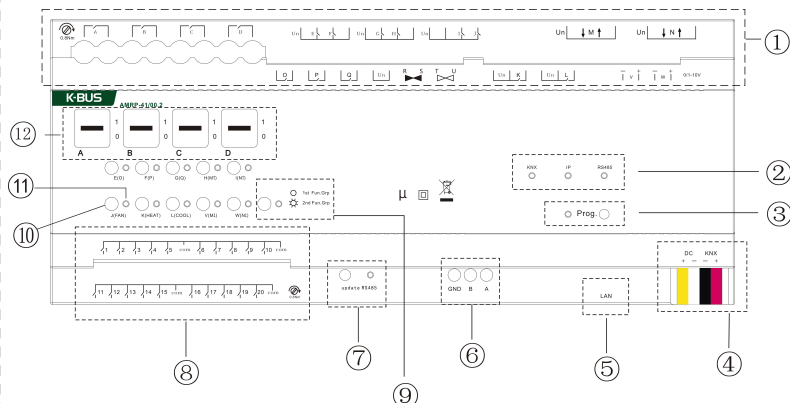
PARAMETERS

Power supply	Bus voltage	21-30V DC, via the EIB
	Standby current	Max. 12mA
	Power consumption	Max. 360mW
Auxiliary Power	Work voltage	24-30V DC
	Auxiliary current	Max. 250mA
	Auxiliary power consumption	<6W
Input	20ch Dry Input	
Output	10ch Switch (4ch is 16A, other 6ch is 10A)	
	2ch Dimming (0/1~10V dimming output, rated current is 100mA)	
	2ch Shutter (rated voltage is 250VAC, rated current is 10A)	
	1ch Fan Coil, (3 levels fan output, 4 pipes HVAC control system)	
Operation and display	Red LED and push button	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
Temperature	Operation	-5 °C ... + 45 °C
	Storage	-25 °C ... + 55 °C
	Transport	-25 °C ... + 70 °C
Environmental	humidity	<93%, except condensation
Installation	Modular Din-Rail Component	35mm DIN Rail

DIMENSIONS



DESCRIPTIONS



- ① Output load terminal: A~L are Switch output; V and W are Dimmer output; O~Q are Fan output; R and S are Heating valve; T and U are Cooling valve; M and N are shutter output
- ② Communication interface state indicate LED
- ③ Programming push button and LED; Red LED for assigning the physical address, Green LED for displaying application layer running normally
- ④ EIB/KNX bus and auxiliary power connection terminal
- ⑤ KNX IP connection
- ⑥ RS485 communication connection terminal
- ⑦ Update RS485 push button and LED. lowly flashing indicate converter running normally, while fast flashing for updating
- ⑧ Dry contact inputs (1...20)
- ⑨ Electronic manual operation function group shift
- ⑩ Manual operation Electronic switch
- ⑪ channel status display
- ⑫ Manual operation, Mechanical switch and switch position display

INSTALLATION FIGURE

The devices are suitable for installation on the distribution boards with 35mm mounting rail which complies with DIN EN 60715 or a small box in order to facilitate quick installation of the device. Must ensure that the device operation, testing, detecting, maintenance correctly.

IMPORTANT INFORMATION

- Installation and commissioning of the device may only be carried out by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.
- Protect the device against moisture, dirt and damage during transport, storage and operation!
 - Do not operate the device outside the specified technical data (e.g. temperature range)!
 - The device may only be operated in closed enclosures (e.g. distribution boards). Should the device become soiled, it may be cleaned with a dry cloth. If this does not suffice, a cloth lightly moistened with soap solution may be used. On no account should caustic agents or solvents be used.

房间控制器高级版技术规格书

适用型号：
AMRP-41/00.2

国际标准的家庭和楼宇控制系统

产品功能特性

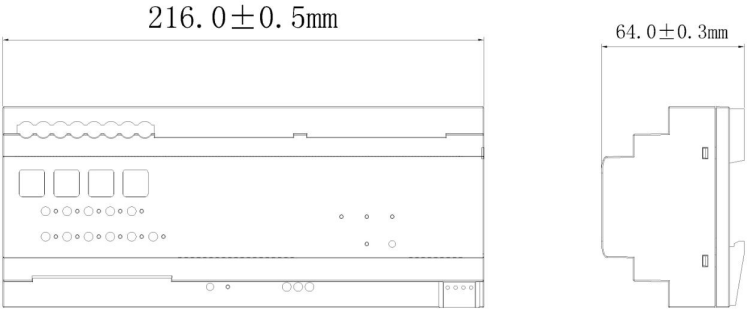
- 提供 20 个干接点输入，每个输入可用于控制开关、调光、值输出、百叶窗和延时发送
- 提供 10 个通道开关输出，其中 4 通道带机械手动开关，最大负载电流 16A；其它通道带电子手动开关，最大电流是 10A。所有通道都有楼梯灯、闪烁和时间功能，以及逻辑、强制操作功能
- 2 通道百叶窗输出，最大负载电流是 10A，可移动窗帘，也可调整百叶角度，还带有自动功能和太阳防护、安全操作功能.可复用为 4 路独立开关输出功能
- 2 通道 0/1~10V 调光输出，通道带载能力为 100mA，可实现相对调光、亮度调光和楼梯灯功能。可复用为 2 路独立开关输出功能
- 1 通道风机盘管输出，提供高、中、低档风速输出，最大电流是 10A，当不作风机使用时，这三档风速可用作三通道开关输出；4 管制 HVAC 控制系统，最大负载电流是 2A，两种控制类型：PWM 和连续控制
- 支持 RS485 转换功能
- 支持 KNX IP 转换功能

参数

主电源	总线电压	21~30V DC, 通过总线取电
	待机电流	最大 12mA
	待机功耗	最大 360mW
辅助电源	工作电压	24~30V DC
	辅助供电电流	Max. 250mA
	辅助电源功耗	<6W
输入	20 路干接点输入扫描	
	10 路开关（4 路 16A，其他 6 路为 10A）	
	2 路调光 (0/1~10V 调光输出, 带载能力最大为 100mA)	
输出	2 路百叶窗（额定电流为 10A）	
	1 路风机盘管（支持二、四管制风机盘管系统）	

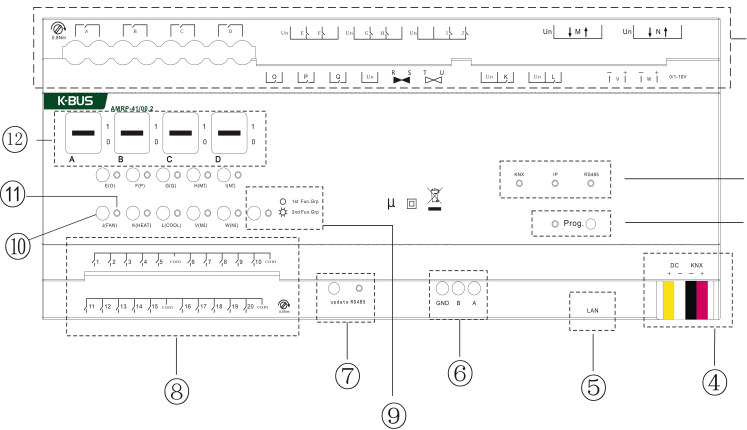
操作及显示	编程按键和 LED 灯	编程物理地址
	绿色灯闪烁	指示应用层运行正常
	操作	- 5 ° C ... + 45 ° C
温度	存储	- 25 ° C ... + 55 ° C
	运输	- 25 ° C ... + 70 ° C
环境	湿度	<93%, 结露除外
安装	模块化设备	35mm 导轨安装

尺寸图



型号	尺寸	重量
AMRP-41/00.2	216×90×64mm(长×宽×高)	0.7kg

说明



- ①输出负载端子:A~L 为开关输出;V 和 W 为调光输出; OPQ 为风速输出;R 和 S 为加热阀;T 和 U 为制冷阀;M 和 N 为百叶窗输出
- ②通讯接口状态指示 LED
- ③编程按键及 LED 指示灯：红灯指示编程物理地址，绿灯指示设备应用层运行正常
- ④EIB/KNX 总线和辅助供电连接端子
- ⑤KNX IP 网络连接端口
- ⑥RS485 通讯连接端口
- ⑦RS485 应用更新操作按键和指示灯：慢闪指示应用正常工作，快闪指示处于更新固件的状态
- ⑧ 干接点输入(1...20)
- ⑨电子手动操作功能切换按键及指示灯
- ⑩ 输出通道手动操作按键
- ⑪输出通道状态指示灯
- ⑫通道 A、B、C 和 D 输出的机械开关，及开关的触点位置指示

安装说明

此设备为了方便快速安装到配电箱或小盒子里面，根据 EN 60715 系列设计成模块化安装设备，能安装在 35 毫米导轨上。安装时必须确保设备操作、测试、检测、维护、维修正确无误。

重要提示

安装和调试设备只能由合格的熟练电工来操作。在计划与实施电气安装的过程中相关的标准、指令、规则和指示都要严格执行。

- 需要避免器件在运输、储存、使用的过程中受潮、脏污以及受损。
- 不要使器件运行在指定的技术指标之外（例如温度范围）。
- 器件只可以运行在封闭的环境中（例如配电箱）。

当设备脏污时，只可以使用干燥的布来清洁。如果这样不足以清洁干净,可以使用湿布蘸少许肥皂溶液轻轻擦拭。绝不能使用碱剂或者腐蚀性溶剂。