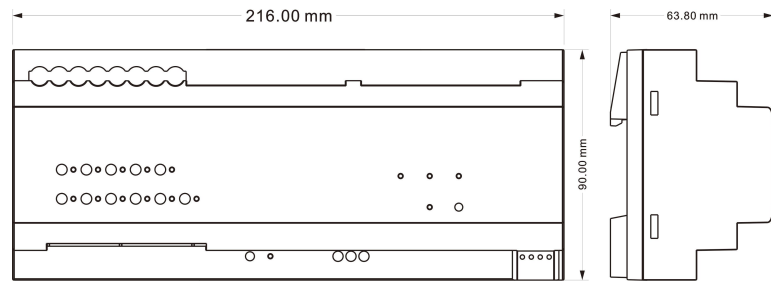


Technical Sheet For EIB/KNX Room Controller Smart

AMRS-41/05.3

The worldwide standard for home and building control

DIMENSIONS



Model	Dimension	Weight
AMRS-41/05.3	216×90×63.8mm(L×W×H)	0.7kg

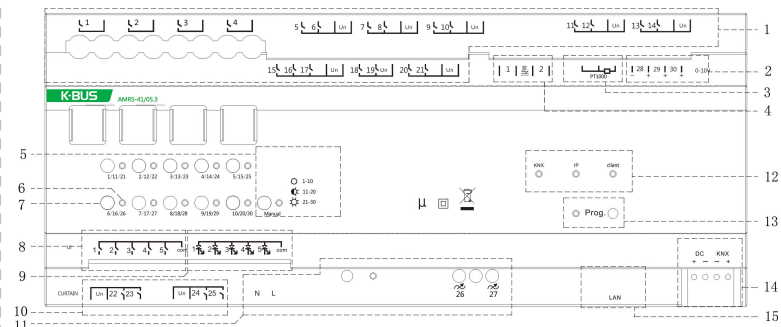
CHARACTERISTICS

- Up to 5 channels dry contact and 2 channels binary input AC/DC 0-230V. Switching, dimming, shutter control, value sending functions supported.
- Up to 5 channels common-anode LED output, 10mA/ch, 10 levels of brightness supported.
- KNX/IP protocol supported with max. 5 clients.
- KNX/IP Router function supported with max. 8 group addresses in filter table.
- 1 fold Fan coil control function supported with PID algorithm for local control or bus control.
- Three-wire PT1000 temperature sensor supported.
- Up to 2 folds of triac dimming output of 100W/channel.
- Up to 3 channels 0-10V signal output with 50mA/channel for 0-10V dimming control, fan control and heating/cooling valve control.
- Up to 25 folds of switching output, partially reusable with shutter control, fancoil control.
- Up to 2 folds of shutter actuator for blinds/shutter control.
- Up to 4 folds of AND/OR/XOR logic function.
- Up to 4 folds of time control functions like time-delay, flashing etc.
- Up to 4 groups of scene control, each with max. 8 scene control function (sending time controllable).

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. 200mA
	Auxiliary power consumption	<6W
	5ch Dry Input	
Input	PT1000 temperature sensor detector	
	RJ45 internet connection	
	2ch AC/DC 0~230V input detect	
	5ch LED indicator,common-anode	
	25ch Relay output (4ch are 16A,others are 6A),4 ch can use as 2ch	
Output	shutter control, 3ch can use as fan control,2ch can use as valve control	
	3ch 0-10Voutput,used as dimming or fan coil output	
Operation and display	2ch Triac Dimming,max.100W	
	Manual operation and status indication	Program Button and LED
Temperature	Operation	Program Physical Address
	Storage	For displaying application layer
Environmental	humidity	running normally
	Operation	-5 °C ... + 45 °C
	Storage	-25 °C ... + 55 °C
Installation	Transport	- 25 °C ... + 70 °C
	humidity	<93%,except condensation
Installation	Modular Din-Rail Component	35mm DIN Rail

DESCRIPTIONS



1. Terminal for relay output(21-channel switching value, channel 15, 16, 17 can be reused as fan control, channel 18, 19 as valve control).
2. Terminal for 3 channels of 0-10V output.
3. Three-wire PT1000 temperature sensor input.
- 4.Binary Input terminal.
- 5.Function group button and LED indication:
 - LED OFF: the beside buttons and indication LEDs work for channel 1-10.
 - LED Blink: the beside buttons and indication LEDs work for channel 11-20.
 - LED ON: the beside buttons and indication LEDs work for channel 21-30.
6. LED ON: the channel is activated.
7. Manual operation button.
8. Dry contact input connector: 5 channels, 1 common port.
- 9.LED output connector: 5 channels, 1 common port, LED common anode.
10. terminal for relay output,can be reused as 2ch shutter control output
11. L, N wire input terminal for dimming output.
12. Communication LED indication:
 - KNX: when ON, bus connection is well; when blinking, telegram transmitting.
 - IP: when ON, net connection is well; when blinking, telegram transmitting.
 - Client: when ON, KNXnet/IP client is well; when blinking, telegram transmitting.
- 13.Program Button and LED Indication:
 - When RED, physical address is being assigned.
 - When GREEN, the device is working well.
14. KNX bus connector and auxiliary power connector.
15. Network connector.

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:

AMRS-41/05.3

国际标准的家庭和楼宇控制系统

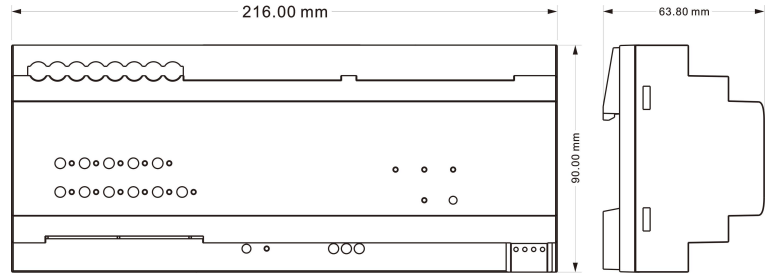
产品功能特性

- 支持 5 路无源干接点输入，2 路有源 AC/DC 0~230V 输入。具有开关、调光、窗帘、值发送等功能。
- 支持 5 路共阳 LED 输出，每路限流 10mA，支持 10 级亮度显示。
- 支持 KNXnet IP 协议，最多可以连接 5 个客户端。
- 支持 KnxNet IPRouter 协议，可通过参数配置 8 个组地址段的过滤。
- 支持 1 路风机盘管输出，适用于二管或四管制控制，内置 PID 算法支持本地控制或总线控制两种模式。
- 支持三线制 PT1000 温度传感器。
- 支持 2 路可控硅调光输出，每路限制功率 100W。
- 支持 3 路 0-10V 信号输出，每路限流 50mA，可用于驱动 0-10V 调光控制器、风机、加热制冷阀门。
- 支持最多 25 路开关输出。部分开关执行器与窗帘、风机盘管可做功能复用。
- 支持 2 路窗帘控制，可用于百叶和开合帘控制。
- 支持 4 路与、或、异或、数据类型转换的逻辑功能。
- 支持 4 路延时、闪烁等时间控制功能。
- 支持 4 组场景功能，每组最多支持 8 个场景功能，可配置场景发送时间间隔。

参数

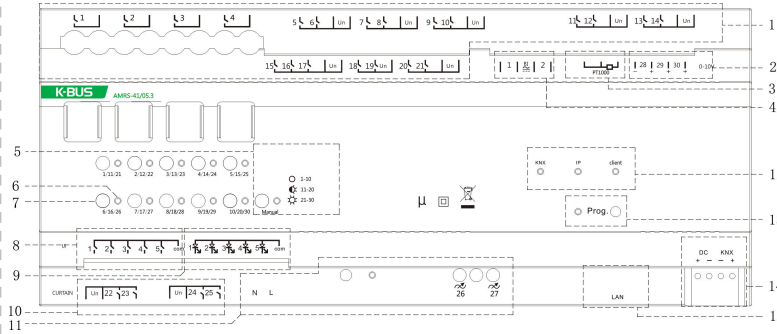
主电源	总线电压	21-30V DC, 通过总线取电
	待机电流	最大 12mA
	待机功耗	最大 360mW
辅助电源	工作电压	24-30V DC
	辅助供电电流	Max. 200mA
	辅助电源功耗	<6W
输入	5 路干接点输入扫描	
	1 路 PT1000 输入	
	1 路网口输入	
输出	2 路有源 AC/DC 0~230V 输入检测	
	5 路 LED 输出 最大 10mA, 共阳连接方式	
	25 路开关输出 (4 路 16A, 21 路为 6A, 其中 4 路可复用为 2 路窗帘输出, 3 路可复用为风机控制, 2 路可复用为盘管输出)	
操作及显示	3 路 0-10V 信号输出, 50mA 每路, 可用于调光或风机盘管	
	2 路可控硅调光, 带载能力最大为 100W	
	手动操作及状态指示	编程按键和 LED 灯编程物理地址
温度	绿色灯闪烁	指示应用层运行正常
	操作	- 5 ° C ... + 45 ° C
	存储	- 25 ° C ... + 55 ° C
环境	运输	- 25 ° C ... + 70 ° C
	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
AMRS-41/05.3	216×90×63.8mm(长×宽×高)	0.7kg

说明



1. 继电器输出端子，其中 15、16、17 可复用为风机输出，18、19 可复用为盘管输出。
2. 3 路 0-10V 输出连接端子
3. 三线 PT1000 温度传感器
4. 二进制输入端子
5. 功能组切换按钮与 LED 指示。
常灭时，旁边的按钮及指示灯作用于第一个功能组，控制及指示 1-10 通道状态，
闪烁时，旁边的按钮及指示灯作用于第二个功能组，控制及指示 11-20 通道状态，
常亮时，旁边的按钮及指示灯作用于第三个功能组，控制及指示 21-30 通道状态。
6. 各种功能的输出状态指示，指示灯亮时，表示此输出激活
7. 各种输出功能的手动操作按钮
8. 干接点输入连接端，5 个通道，1 个公共端
9. LED 输出控制输出连接端，5 个通道，1 个公共端，LED 共阳
10. 继电器输出端子，可复用为 2 路百叶窗控制输出
11. L、N 线输入端子，调光输出端子
12. 通讯接口状态指示 LED
KNX: 常亮时，总线链接正常；闪烁时：有报文收发
IP: 常亮时，网络链接正常；闪烁时：有报文收发
Client: 常亮时，KNXnetIP 客户端连接正常，闪烁时：有报文收发
13. 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
14. EIB/KNX 总线和辅助供电连接端子
15. 网络连接端口

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。