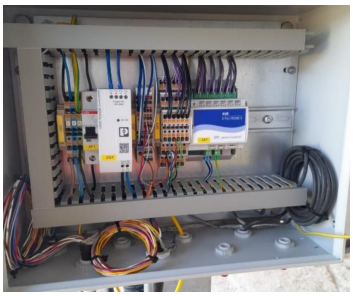
# Fieldbus extension box AC

## Item no. 592.741



## Description

With the Fieldbus Extension Box AC you can build a star layout RS485 network.

The integrated RS485 hub has two RS485 input channels and six RS485 output channels. As each output channel has its own line driver you can connect a RS485 leg with a maximum cable length of 1,200 m to every output. Inputs and outputs are galvanically separated from one another.

The RS485 hub can also be used as a repeater.

The Fieldbus Extension Box AC includes a 60 W power supply, so it can be sourced with 100 … 240 V AC.

## Interfaces

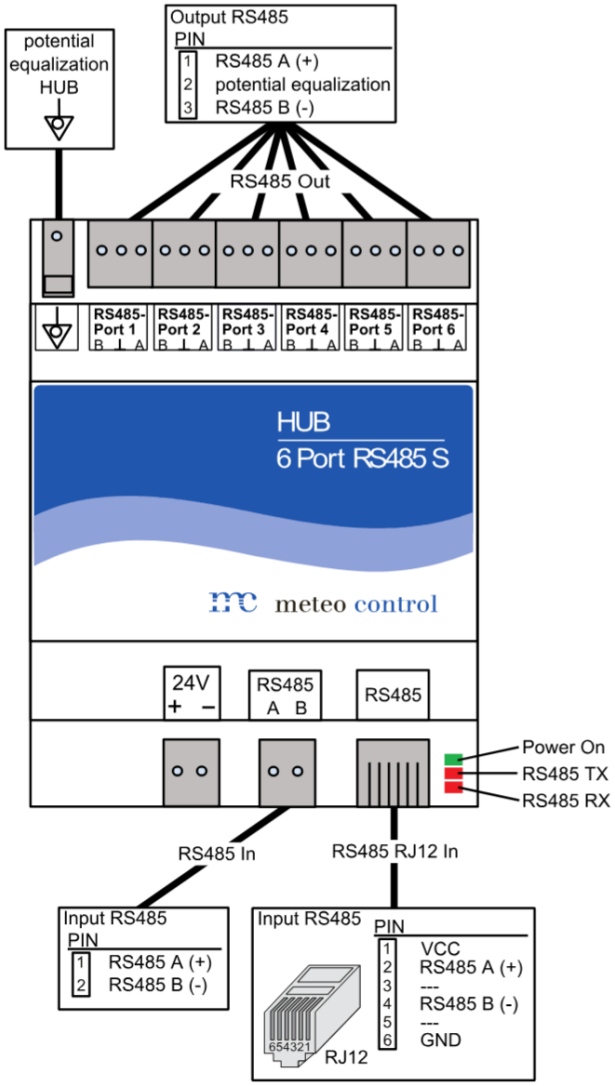
| | |
|---|---|
| Power supply input | 1 x 230 V AC (tension-clamp connection up to 4 mm²) |
| Power supply output | 9 x 24 V DC + and - (tension-clamp connection up to 1.5 mm²) |
| Protective earthing | 1 x PE (push-in connection up to 6.0 mm²) + 1 x PE three-core |
| RS485 input | 2 x RS485 two-core; A and B (tension-clamp connection up to 2.5 mm²) |
| RS485 output | 6 x RS485 three-core; A, potential equalization (⊥) and B (direct connection at hub) |
| Potential equalization | 1 x Potential equalization (direct connection on hub) |
| Bus termination | integrated (set permanently) |

## Technical data

| | |
|---|---|
| Power supply | 100 … 240 V AC |
| Power consumption | max. 60 W |
| Protection class | IP 66 |
| Altitude (NHN) | max. 2,000 m |
| Dimensions (H x W x D) | 380 x 300 x 155 mm |

| | |
|---|---|
| Weight | 8 kg |
| Operating temperature | 0 … +55 °C |
| Relative humidity | max. 95 %, non-condensing |

## Connection




RS485 connector diagram

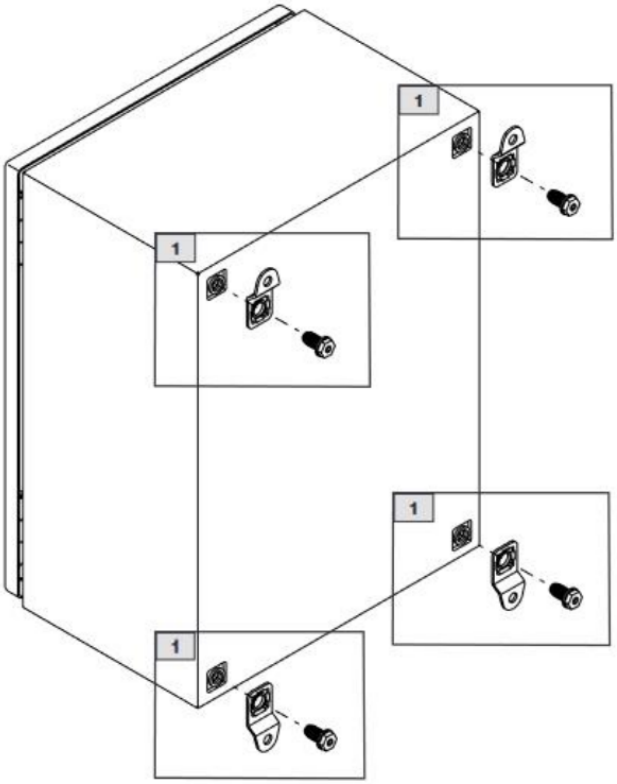
To connect Modbus devices or meteocontrol data logger, refer to the RS485 connector diagram and the operating manual of the respective Modbus devices or data logger.

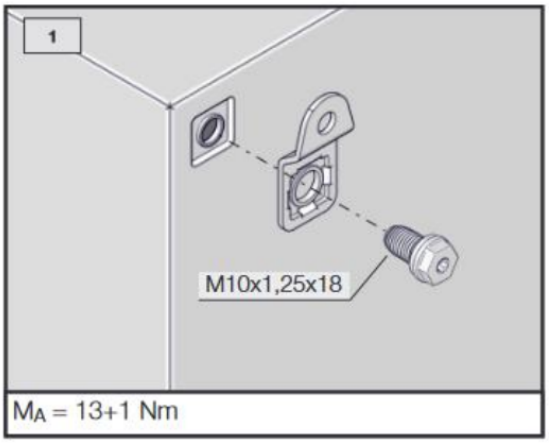
**LED function:**

| LED | | Meaning |
|---|---|---|
| Power On | Green on | Operational |
| | Green off | Power supply fault |
| RS485 TX | Red flashes | Sending signal TX |
| | Red on | RS485 A/B interchanged at input |
| RS485 RX | Red flashes | Sending signal RX |
| | Red on | RS485 A/B interchanged at input |

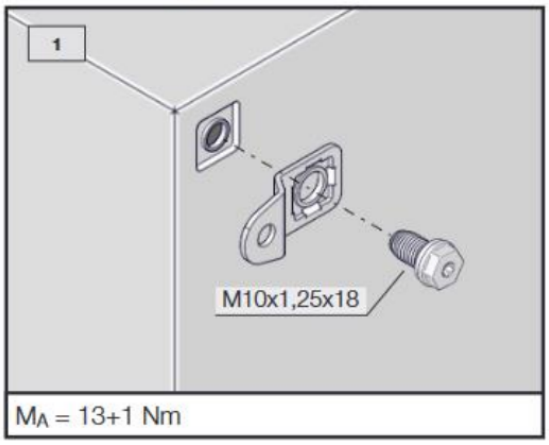
## Mounting

Wall mounting with enclosed mounting material.




**Optional / En option**




## Additional notes

| | |
|---|---|
| Conformity | CE, 2014/30/EU, DIN EN 61000-6-2, -3, -4, IEC 61010-1 |
| Warranty | 2 years / 5 years on request |