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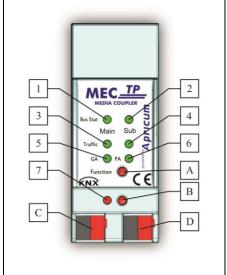
Product description and application

The basic functionality of the media coupler MECtp is coupling a TP main line to a TP sub line providing a galvanic isolation between the two connected KNX bus lines. Due to its flexibility the MECtp coupler unit can be used as a KNX line coupler (to connect a sub line with a main line), as a KNX backbone coupler (to connect a main line with a backbone line) or as a repeater (with no filtering). The MECtp is able to filter the traffic according to the installation place in the bus system hierarchy or according to the built in filter tables for group oriented communication.

The **MEC** tp supports long messages (up to 240 byte APDU length) and features a configurable "Manual Function" that can be activated by a single button press. This routing function is helpful during commissioning, during run time and for trouble shooting. To identify common communication problems the 6 duo LED display shows accurately the bus status on each line. Available functions:

- · Suppress device configuration from the sub line
- Suppress device oriented telegrams
- Trace the sub line traffic
- Enable/disable filtering of Group telegrams or Physical telegrams
- Reduced number of retransmissions
- · Diagnostic functions

Connections and front side description



For more information on functionality, buttons function and device status please see the document "Technical and Application Description" available on the Apricum website.

- Bus state main line LED
- Bus state sub line LED
- Bus traffic main line LED
- Bus traffic sub line LED
- **Group address filter** 5 table status LED Physical address 6

filtering status LED

- 7 Programming LED
- A **Function button**
- В **Programming button**
 - **KNX** connector main line
 - KNX connector sub line

Technical specifications

Power supply

- Current consumption (max.): < 30 mA
- Power supply: - KNX main line,

21...30 V DC (SELV) (used for internal power supply)

- KNX sub line,

21...30 V DC (SELV)

Housing

• Dimensions (HxWxD): 94 x 36 x 71 mm

• Mounting (IEC60715): 35 mm top-hat rail (TH35)

• Width in space units: 2 modules at 18 mm • Bus connections: KNX terminal (red/black)

• Weight: 66 g

Environmental conditions

• Working temperature: -5...45 °C • Storage temperature: -20...60 °C • Ambient humidity (non-condensing): 5...93 %

Electrical safety

• Pollution degree (IEC60664-1): 2 IP20 • Protection type (IEC60529): Protection class (IEC61140): Ш • Overvoltage category (IEC60664-1): III

• Approbation (ISO/IEC14543-3): KNX - certified

Device complies with EN50491-5, EN50581, EN60669, EN61000-6

CE-Marking

According to low voltage and EMC guidelines

Mounting, commissioning and safety notes



The MECtp coupler unit must be mounted and commissioned by an authorized person

- For planning and construction of electric installations the appropriate specifications, guidelines and regulations in force of the respective country have to be complied
- For mounting and dismounting only use an appropriate rail equipment according to IEC60715
- Connect the KNX bus line as for common KNX bus connections with a KNX bus cable, to be stripped and plugged into the WAGO block
- Take care of the electric insulations when connecting
- Installation only in dry locations within distribution boards or enclosed housings with TH35 mounting rail
- For commissioning use the Engineering Tool Software
- The housing must not be opened
- Accessibility of the device for operation and visual inspection must be provided
- Protect the device from moisture, dirt and damage
- The device needs no maintenance
- If necessary, the device can be cleaned with a dry cloth
- In the case of damage no repairs may be carried out by unauthorized personnel

Installation example

