

Product description and application	Connections and front side description
<p>The basic functionality of the media coupler MEC_{tp} 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 MEC_{tp} 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 MEC_{tp} 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.</p> <p>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:</p> <ul style="list-style-type: none"> • 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 	<div data-bbox="778 257 1125 705"> </div> <div data-bbox="1189 235 1524 795"> <ul style="list-style-type: none"> 1 Bus state main line LED 2 Bus state sub line LED 3 Bus traffic main line LED 4 Bus traffic sub line LED 5 Group address filter table status LED 6 Physical address filtering status LED 7 Programming LED A Function button B Programming button C KNX connector main line D KNX connector sub line </div> <p>For more information on functionality, buttons function and device status please see the document "Technical and Application Description" available on the Apricum website.</p>
Technical specifications	
<p>Power supply</p> <ul style="list-style-type: none"> • Current consumption (max.): < 30 mA • Power supply: <ul style="list-style-type: none"> - KNX main line, 21...30 V DC (SELV) (used for internal power supply) - KNX sub line, 21...30 V DC (SELV) <p>Housing</p> <ul style="list-style-type: none"> • 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 	<p>Environmental conditions</p> <ul style="list-style-type: none"> • Working temperature: -5...45 °C • Storage temperature: -20...60 °C • Ambient humidity (non-condensing): 5...93 % <p>Electrical safety</p> <ul style="list-style-type: none"> • Pollution degree (IEC60664-1): 2 • Protection type (IEC60529): IP20 • Protection class (IEC61140): III • Overvoltage category (IEC60664-1): III • Approbation (ISO/IEC14543-3): KNX – certified • Device complies with EN50491-5, EN50581, EN60669, EN61000-6 <p>CE-Marking</p> <p>According to low voltage and EMC guidelines</p>
Mounting, commissioning and safety notes	Installation example
<div data-bbox="79 1444 159 1523"> </div> <p>The MEC_{tp} coupler unit must be mounted and commissioned by an authorized person</p> <ul style="list-style-type: none"> • 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 	<div data-bbox="750 1489 1500 2027"> </div> <p>More information available at http://www.apricum.com/linecoupler-mectp</p>