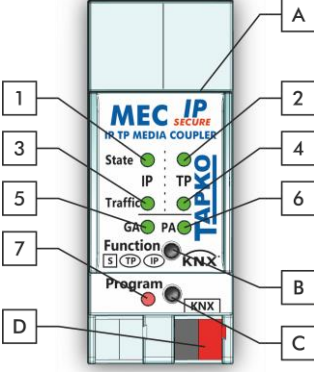
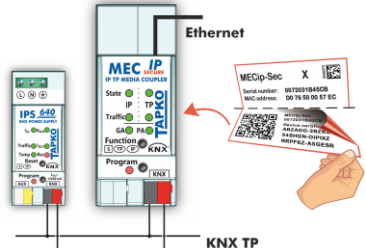
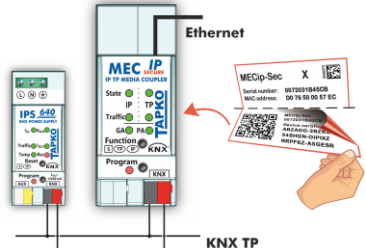
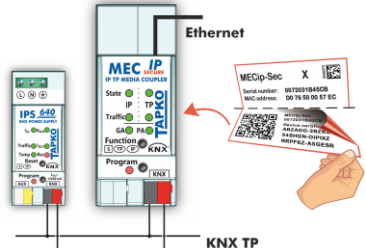
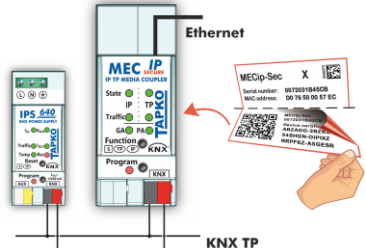
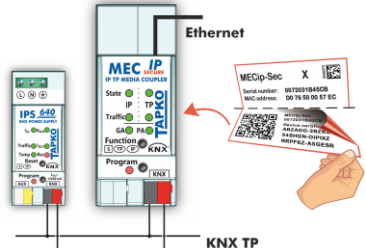
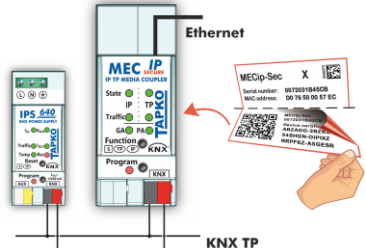
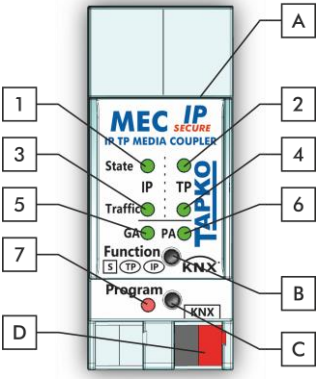
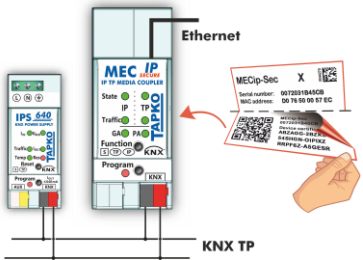


| Product description | Connectors, buttons and LEDs description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|---|---|--|------------------------------|--|----------------------------------|--|--|--|----------------------------------|----------------|-------------------------------------|--|-------------------------------------|--|--|--|---|--|--|-------------------|--|--|---|----------------|------------------|--|---------------------------------------|--|------------------|--|--------------|------------|-------------------|---------------------------------|--|--|---------|--|-----------------------------------|--|----------------|--|----------------------------------|--|----------------|--|---|--|------------------------|
| <p>The MECip-Sec media coupler connects both media KNX IP and KNX TP. As KNX IP Router, it couples KNX IP/Ethernet and TP bus system. KNXnet/IP (Secure) Routing and Tunneling are supported. Secure Tunneling, Secure Commissioning, and IP Backbone Security can be activated.</p> <p>MECip-Sec is able to filter the traffic according to the installation place in the bus system hierarchy and according to the built-in filter tables for group-oriented communication. Configuring from subline can be deactivated. Used as Interface, MECip-Sec provides configuring, commissioning, visualization, protocolling and diagnostic operation. Operational and filtering states, malfunction and faulty communication are indicated by LEDs. Filtering can be temporarily deactivated on button press (Function button), i.e. to ease commissioning. Long messages with up to 240 bytes APDU length are supported. For IP (Secure) Tunneling, four (password-protected) Tunneling channels are available.</p> <p>MECip-Sec is shown in the network. A disengageable web front-end can be accessed to read out device settings, remotely activate functions (like Programming Mode) and watch a 60 min busload history diagram. Also, the integrated boot-loader function enables remote firmware updates via IP/Ethernet.</p> <p>MECip-Sec is suitable for 35 mm DIN rails and installation in distribution boards. Supplied by the KNX bus line, it does not require an external power supply. KNX IP devices can be connected directly and via Ethernet.</p> <p>Requirements of Directives EMC, RoHS and LVD are met. Standards for residential, commercial, and industrial environments are fulfilled. The full text of the EU declaration of conformity is available at the following internet address: www.tapko.de/ce</p> |  <p>A Ethernet connector</p> <p>B Function button</p> <p>C Programming button</p> <p>D KNX TP connector</p> | <ol style="list-style-type: none"> 1 State IP (Main line) green: Main line OK orange: Manual Function active 2 Bus state KNX TP (Subline) green: Subline OK 3 Telegram traffic IP (Main line) green (blinking): Telegram traffic extent 4 Telegram traffic KNX TP (Subline) green (blinking): Telegram traffic extent red (blinking): Transmission error 5 Group Address routing green: Filter active orange: Route all red: Block all <off>: Main line / subline different 6 Physical Address routing green: Filter active orange: Route all red: Block all <off>: Main line / subline different 7 Programming LED red: Programming Mode active red (blinking): No IP connection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Technical specifications | <table border="0"> <tr> <td>Power input</td> <td>Power supply: 21...30 V DC SELV</td> <td>Electrical safety</td> <td>Pollution degree (IEC60664): 2</td> </tr> <tr> <td></td> <td>Current consumption: < 20 mA</td> <td></td> <td>Protection type (IEC60529): IP20</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Protection class (IEC61140): III</td> </tr> <tr> <td>Housing</td> <td>Dimensions (HxWxD): 90 x 36 x 71 mm</td> <td></td> <td>Overvoltage category (IEC60664): II</td> </tr> <tr> <td></td> <td>Mounting (IEC60715): 35 mm top-hat rail (TH35)</td> <td></td> <td>Approbation (ISO/IEC14543-3): KNX-certified</td> </tr> <tr> <td></td> <td>Width in space units: 2 modules at 18 mm</td> <td>CE Marking</td> <td></td> </tr> <tr> <td></td> <td>KNX bus connection: KNX connector (red/black)</td> <td>EU Directives:</td> <td>LVD (2014/35/EU)</td> </tr> <tr> <td></td> <td>IP connector: Ethernet (RJ45, female)</td> <td></td> <td>EMC (2014/30/EU)</td> </tr> <tr> <td></td> <td>Weight: 68 g</td> <td>Standards:</td> <td>RoHS (2011/65/EU)</td> </tr> <tr> <td>Environmental conditions</td> <td></td> <td></td> <td>EN50581</td> </tr> <tr> <td></td> <td>Operating temperature: -5...45 °C</td> <td></td> <td>EN61000-6-2/-3</td> </tr> <tr> <td></td> <td>Storage temperature: -20...60 °C</td> <td></td> <td>EN IEC 62368-1</td> </tr> <tr> <td></td> <td>Ambient humidity: 5...93 % (non-condensing)</td> <td></td> <td>EN IEC 63044-5-1/-2/-3</td> </tr> </table> | | Power input | Power supply: 21...30 V DC SELV | Electrical safety | Pollution degree (IEC60664): 2 | | Current consumption: < 20 mA | | Protection type (IEC60529): IP20 | | | | Protection class (IEC61140): III | Housing | Dimensions (HxWxD): 90 x 36 x 71 mm | | Overvoltage category (IEC60664): II | | Mounting (IEC60715): 35 mm top-hat rail (TH35) | | Approbation (ISO/IEC14543-3): KNX-certified | | Width in space units: 2 modules at 18 mm | CE Marking | | | KNX bus connection: KNX connector (red/black) | EU Directives: | LVD (2014/35/EU) | | IP connector: Ethernet (RJ45, female) | | EMC (2014/30/EU) | | Weight: 68 g | Standards: | RoHS (2011/65/EU) | Environmental conditions | | | EN50581 | | Operating temperature: -5...45 °C | | EN61000-6-2/-3 | | Storage temperature: -20...60 °C | | EN IEC 62368-1 | | Ambient humidity: 5...93 % (non-condensing) | | EN IEC 63044-5-1/-2/-3 |
| Power input | Power supply: 21...30 V DC SELV | Electrical safety | Pollution degree (IEC60664): 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Current consumption: < 20 mA | | Protection type (IEC60529): IP20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Protection class (IEC61140): III | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Housing | Dimensions (HxWxD): 90 x 36 x 71 mm | | Overvoltage category (IEC60664): II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mounting (IEC60715): 35 mm top-hat rail (TH35) | | Approbation (ISO/IEC14543-3): KNX-certified | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Width in space units: 2 modules at 18 mm | CE Marking | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | KNX bus connection: KNX connector (red/black) | EU Directives: | LVD (2014/35/EU) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IP connector: Ethernet (RJ45, female) | | EMC (2014/30/EU) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Weight: 68 g | Standards: | RoHS (2011/65/EU) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Environmental conditions | | | EN50581 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Operating temperature: -5...45 °C | | EN61000-6-2/-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Storage temperature: -20...60 °C | | EN IEC 62368-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ambient humidity: 5...93 % (non-condensing) | | EN IEC 63044-5-1/-2/-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mounting, commissioning and safety notes | <table border="0"> <tr> <td data-bbox="60 1487 794 2040"> <ul style="list-style-type: none"> • After connection to the KNX bus system, the device works with its default settings as intended • Warning: Do not connect to 230 V. The device is supplied by the KNX bus and does not require any additional external power supply • The device may only be installed and put into operation by a qualified electrician or 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 use an appropriate equipment according to IEC60715 • Installation on a 35 mm DIN rail (TH35) • Connect the KNX bus line as for common KNX bus connections with a KNX bus cable, to be stripped and plugged into a KNX TP connector • Do not damage electrical insulations during connecting • Installation only in dry locations • Accessibility of the device for operation and visual inspection must be provided • For configuring, use the ETS </td> <td data-bbox="794 1487 1533 2040"> <table border="0"> <tr> <td data-bbox="794 1487 1139 2040"> Installation and maintenance <ul style="list-style-type: none"> • The housing must not be opened • 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 (at storage, transport) no repairs may be carried out by unauthorized persons • Configuration details and ETS database: www.tapko.de/mecip-sec </td> <td data-bbox="1139 1487 1533 2040"> <ul style="list-style-type: none"> • Device Certificate and Serial Number are placed on a label sidely adhered. For archiving, the certificate can be cut off and removed. Afterwards, the cut-off part can only be identified by comparison of the Serial Number.  </td> </tr> </table> </td> </tr> </table> | | <ul style="list-style-type: none"> • After connection to the KNX bus system, the device works with its default settings as intended • Warning: Do not connect to 230 V. The device is supplied by the KNX bus and does not require any additional external power supply • The device may only be installed and put into operation by a qualified electrician or 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 use an appropriate equipment according to IEC60715 • Installation on a 35 mm DIN rail (TH35) • Connect the KNX bus line as for common KNX bus connections with a KNX bus cable, to be stripped and plugged into a KNX TP connector • Do not damage electrical insulations during connecting • Installation only in dry locations • Accessibility of the device for operation and visual inspection must be provided • For configuring, use the ETS | <table border="0"> <tr> <td data-bbox="794 1487 1139 2040"> Installation and maintenance <ul style="list-style-type: none"> • The housing must not be opened • 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 (at storage, transport) no repairs may be carried out by unauthorized persons • Configuration details and ETS database: www.tapko.de/mecip-sec </td> <td data-bbox="1139 1487 1533 2040"> <ul style="list-style-type: none"> • Device Certificate and Serial Number are placed on a label sidely adhered. For archiving, the certificate can be cut off and removed. Afterwards, the cut-off part can only be identified by comparison of the Serial Number.  </td> </tr> </table> | Installation and maintenance <ul style="list-style-type: none"> • The housing must not be opened • 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 (at storage, transport) no repairs may be carried out by unauthorized persons • Configuration details and ETS database: www.tapko.de/mecip-sec | <ul style="list-style-type: none"> • Device Certificate and Serial Number are placed on a label sidely adhered. For archiving, the certificate can be cut off and removed. Afterwards, the cut-off part can only be identified by comparison of the Serial Number.  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • After connection to the KNX bus system, the device works with its default settings as intended • Warning: Do not connect to 230 V. The device is supplied by the KNX bus and does not require any additional external power supply • The device may only be installed and put into operation by a qualified electrician or 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 use an appropriate equipment according to IEC60715 • Installation on a 35 mm DIN rail (TH35) • Connect the KNX bus line as for common KNX bus connections with a KNX bus cable, to be stripped and plugged into a KNX TP connector • Do not damage electrical insulations during connecting • Installation only in dry locations • Accessibility of the device for operation and visual inspection must be provided • For configuring, use the ETS | <table border="0"> <tr> <td data-bbox="794 1487 1139 2040"> Installation and maintenance <ul style="list-style-type: none"> • The housing must not be opened • 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 (at storage, transport) no repairs may be carried out by unauthorized persons • Configuration details and ETS database: www.tapko.de/mecip-sec </td> <td data-bbox="1139 1487 1533 2040"> <ul style="list-style-type: none"> • Device Certificate and Serial Number are placed on a label sidely adhered. For archiving, the certificate can be cut off and removed. Afterwards, the cut-off part can only be identified by comparison of the Serial Number.  </td> </tr> </table> | Installation and maintenance <ul style="list-style-type: none"> • The housing must not be opened • 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 (at storage, transport) no repairs may be carried out by unauthorized persons • Configuration details and ETS database: www.tapko.de/mecip-sec | <ul style="list-style-type: none"> • Device Certificate and Serial Number are placed on a label sidely adhered. For archiving, the certificate can be cut off and removed. Afterwards, the cut-off part can only be identified by comparison of the Serial Number.  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation and maintenance <ul style="list-style-type: none"> • The housing must not be opened • 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 (at storage, transport) no repairs may be carried out by unauthorized persons • Configuration details and ETS database: www.tapko.de/mecip-sec | <ul style="list-style-type: none"> • Device Certificate and Serial Number are placed on a label sidely adhered. For archiving, the certificate can be cut off and removed. Afterwards, the cut-off part can only be identified by comparison of the Serial Number.  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Produktbeschreibung | Anschlüsse, Tasten und LEDs | |
|---|--|---|
| <p>Der MECip-Sec Medienkoppler verbindet KNX IP und KNX TP. Als KNX IP-Router koppelt er KNX IP/Ethernet an das TP-Bussystem. KNXnet/IP (Secure) Routing und Tunneling werden unterstützt. Secure Tunneling, Sichere Inbetriebnahme und IP Backbone Sicherheit sind aktivierbar.</p> <p>Der MECip-Sec filtert die weiterzuleitenden Telegramme topologisch und gruppenorientiert. Die Konfiguration über die Nebenlinie ist abschaltbar. Als Schnittstelle kann MECip-Sec für Inbetriebnahme, Konfiguration, Visualisierung, Protokollierung und Diagnose verwendet werden. LEDs zeigen Betriebszustände und Fehler. Die Filterung kann auf Tastendruck (Function), z.B. zur Erleichterung von Inbetriebnahmen, kurz inaktiv geschaltet werden. Lange Telegramme mit bis zu 240 Bytes APDU werden unterstützt. Für IP (Secure) Tunneling stehen vier (passwort-geschützte) Tunneling-Kanäle zur Verfügung.</p> <p>Der MECip-Sec wird im Netzwerk angezeigt. Ein abschaltbares Web-Frontend zum Auslesen der aktuellen Einstellungen, zum Aktivieren von Funktionen (z.B. Programmiermodus) und zum Verfolgen der Buslast (60 min-Verlauf) steht zur Verfügung. Zudem ermöglicht die integrierte Bootloader-Funktion Remote-Firmware-Updates via IP/Ethernet.</p> <p>Der MECip-Sec ist ein REG für 35 mm DIN-Schienen und für den Einbau in einen Verteilerkasten vorgesehen. Das Gerät wird über die KNX-Buslinie versorgt und benötigt keine externe Versorgung. KNX IP Geräte können direkt angeschlossen oder über Ethernet verbunden werden.</p> <p>Die Anforderungen der Direktiven EMC, RoHS und LVD sowie Standards für Wohn & Gewerbebereiche als auch Industriebereiche werden erfüllt. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: www.tapko.de/ce</p> |  | <ol style="list-style-type: none"> 1 Status IP (Hauptlinie) grün: Hauptlinie OK orange: Manual-Funktion an 2 Busstatus KNX TP (Nebenlinie) grün: Nebenlinie OK 3 Telegrammverkehr IP (Hauptlinie) grün (blinkend): Telegrammverkehr 4 Telegrammverkehr KNX TP (Nebenl.) grün (blinkend): Telegrammverkehr rot (blinkend): Übertragungsfehler 5 Gruppenadressen Filter grün: Filter aktiv orange: Alle weiterleiten rot: Alle blockieren <off>: Haupt-/Nebenl. unterschiedlich 6 Physikalische Adressen Filter grün: Filter aktiv orange: Alle weiterleiten rot: Alle blockieren <off>: Haupt-/Nebenl. unterschiedlich 7 Programmier-LED rot: Programmier-Modus an rot (blinkend): Keine IP-Verbindung |
| <p>Technische Angaben</p> <p>Versorgung Eingangsspannung: 21...30 V DC SELV Stromverbrauch: < 20 mA</p> <p>Gehäuse Maße (HxBxT): 90 x 36 x 71 mm Montage (IEC60715): 35 mm DIN-Schiene (TH35) Breite: 2 TE zu je 18 mm KNX Bus-Anschluss: KNX Klemme (rot/schwarz) IP-Anschluss: Ethernet-Buchse (RJ45) Gewicht: 68 g</p> <p>Umgebungsbedingungen Arbeitstemperatur: -5...45 °C Lagertemperatur: -20...60 °C Umgebende Feuchte: 5...93 % (nicht-kondensierend)</p> | | <p>A Ethernet-Buchse</p> <p>B Funktionstaste</p> <p>C Programmierstaste</p> <p>D KNX TP Anschluss</p> |
| <p>Montage, Inbetriebnahme und Sicherheit</p> <ul style="list-style-type: none"> • Nach Anschluss an das KNX-Bussystem arbeitet das Gerät mit seinen Standardeinstellungen wie vorgesehen • Warnung: Nicht an 230V anschließen. Das Gerät wird vom KNX-Bus versorgt und benötigt keine zusätzliche externe Stromversorgung • Das Gerät darf nur von einer Elektrofachkraft oder autorisiertem Fachpersonal installiert und in Betrieb genommen werden • Bei der Planung und Errichtung von elektrischen Anlagen sind die einschlägigen Richtlinien, Vorschriften und Bestimmungen des jeweiligen Landes zu beachten • Zur Montage ein geeignetes Werkzeug nach IEC60715 verwenden • Auf geeignete DIN-Hutschienen (TH35) montieren • Die KNX-Buslinie, wie für alle üblichen KNX-Anschlüsse, mit abisoliertem KNX-Buskabel und KNX TP-Klemme anschließen • Beim Anschließen nicht die elektrischen Isolationen beschädigen • Installation nur in trockener Umgebung • Die Zugänglichkeit zum Gerät muss aus Gründen der Bedienbarkeit und Inspektion stets gewährleistet sein • Zum Konfigurieren die ETS verwenden | <p>Installation und Wartung</p> <ul style="list-style-type: none"> • Das Gehäuse darf nicht geöffnet werden • Gerät vor Feuchtigkeit, Schmutz und Beschädigung schützen • Das Gerät ist wartungsfrei • Wenn nötig, das Gerät mit einem trockenen Tuch reinigen • Bei Beschädigung (bei Transport, Lagerung) darf keine Reparatur vorgenommen werden; Gerät zurückschicken • Konfiguration-Details und ETS-Datenbank: www.tapko.de/mecip-sec • Gerätezertifikat und Seriennummer befinden sich auf dem seitlich angebrachten Etikett. Zur Archivierung kann das Zertifikat abgerissen werden. Danach ist das Zertifikat nur noch durch Vergleich der Seriennummer zuordenbar.  | |