

Modbus TCP & RTU Master to KNX TP Application

Item number: IN701KNX1K20000

Integrate any Modbus RTU or TCP server device, or both simultaneously, with any KNX device or system. This integration aims to make Modbus register data and resources accessible from a KNX system as if they were a part of the KNX system and vice versa.



Modbus TCP & RTU to KNX - 1200 points

Features and benefits

- ✓ **Up to six concurrent Modbus TCP clients supported**
The gateway supports up to six simultaneous Modbus TCP clients.
- ✓ **Commissioning-friendly approach with Intesis MAPS**
Templates can be imported and reused as often as needed, significantly reducing commissioning time.
- ✓ **Support for KNX TP devices**
The gateway supports KNX TP (twisted pair) devices.
- ✓ **KNX standard Datapoint Types (DPT) available**
KNX standard Datapoint Types (DPT) are available to be used for transmission of data on the bus.
- ✓ **Support for both Modbus RTU and Modbus TCP**
The gateway supports both Modbus RTU and Modbus TCP protocols.
- ✓ **Configuration tool and gateway automatic updates**
Both the Intesis MAPS configuration tool and the gateway's firmware can receive automatic updates.
- ✓ **Control up to 3000 KNX communication objects**
Up to 3000 KNX communication objects can be controlled by the gateway.
- ✓ **Up to 255 Modbus Devices per Node (RTU and TCP)**
A maximum of 255 Modbus Devices per Node can be connected for both Modbus RTU and Modbus TCP.

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| General | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Net Width (mm) | 88 |
| Net Height (mm) | 90 |
| Net Depth (mm) | 58 |
| Net Weight (g) | 194 |
| Packed Width (mm) | 127 |
| Packed Height (mm) | 86 |
| Packed Depth (mm) | 140 |
| Packed Weight (g) | 356 |
| Operating Temperature °C Min | -10 |
| Operating Temperature °C Max | 60 |
| Storage Temperature °C Min | -30 |
| Storage Temperature °C Max | 60 |
| Power Consumption (W) | 1.7 |
| Input Voltage (V) | For DC: 9 .. 36 VDC, Max: 180 mA, 1.7 W For AC: 24 VAC ±10 %, 50-60 Hz, Max: 70 mA, 1.7 W Recommended voltage: 24 VDC, Max: 70 mA |
| Power Connector | 3-pole |
| Configuration | Intesis MAPS |
| Capacity | Up to 1200 points. |
| Installation Conditions | This gateway is designed to be mounted inside an enclosure. If the unit is mounted outside an enclosure, precautions should always be taken to prevent electrostatic discharge to the unit. When working inside an enclosure (e.g., making adjustments, setting switches, etc.), typical anti-static precautions should always be followed before touching the unit. |
| Content of Delivery | Intesis Gateway, Installation Manual, USB Configuration cable. |

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General

| | |
|----------------------------|-----------------------------------------------|
| Not Included (in delivery) | Power supply not included. |
| Mounting | DIN rail mount (bracket included), Wall mount |
| Housing Materials | Plastic |
| Warranty (years) | 3 years |
| Packaging Material | Cardboard |

Identification and Status

| | |
|---------------------------------------------|-------------------------|
| Product ID | IN701KNX1K20000_KNX_MBS |
| Country of Origin | Spain |
| HS Code | 8517620000 |
| Dual Usage | No |
| Export Control Classification Number (ECCN) | EAR99 |

Physical Features

| | |
|-----------------------------|-------------------------------------------------------------------------------------------|
| Connectors / Input / Output | Power supply, KNX, Ethernet, Console port USB Mini-B type, USB storage, EIA-232, EIA-485. |
| LED Indicators | Gateway and communication status. |
| Push Buttons | Factory reset. |
| DIP & Rotary Switches | EIA-485 serial port configuration. |
| Contains Battery | Yes |
| Battery Description | Manganese Dioxide Lithium button battery. |

Certifications and Standards

| | |
|---------------------|----------|
| ETIM Classification | EC001604 |
| CE | Yes |
| CB | Yes |

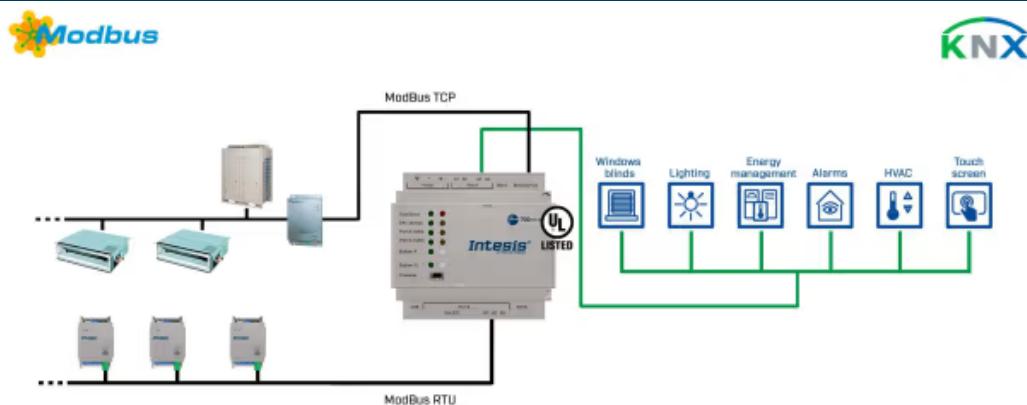
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| Certifications and Standards | |
|------------------------------|-------------------------------------|
| UKCA | Yes |
| UKPSTI | Yes |
| UL | Yes |
| KC | Yes |
| WEEE Category | IT and telecommunications equipment |



Use Case



Integration example.



Integration example.