

EM260

Industrial Modem
for EK220, EK260 and EK280
volume converters

Applications

Data communication and power supply
for EK220, EK260 and EK280 volume converters

Brief information

The EM260 industrial modem is provided for use in the field of remote data transfer in non-hazardous areas and where ambient conditions are difficult and is ideally suited for both, energy suppliers and other industrial customers.

The device has a modular design. Depending on the requirements of the individual metering points, it is possible to use a modem module or an interface module. For data communication via the analogue telephone network a PSTN modem is available.

In connection with the EK220, EK260 or EK280 volume converter it is also possible to use an Ethernet interface module, instead of a modem, which is then connected to a TCP/IP network. Thus EK220, EK260 respectively EK280 can easily be integrated into an already existing network.

Versions

The modem is designed for mounting on a wall in close vicinity to the volume converter. In order to start up the device on site, it is necessary to have either a 90...260 V AC or 18...30 V DC power supply as well as a connection to a telecommunication network or a sufficiently strong reception for a mobile network.

In addition to carrying out data communication functions, the modem also provides the external power supply for the connected volume converter. This is an advantage in particular when data is to be read out more than once a month. Using this concept helps to save the battery in the connected devices and the prescribed minimum operational life of five years can be extended regardless of how often the readout process takes place.

Operation Conditions

The modem is only approved for use in connection with devices, which are not installed in hazardous areas. If a connection to a serial interface inside an Ex-Zone is required, the function extension unit FE260 is available for use.



Main features

- Industrial modem
- Easy to assemble wall mounting
- IP66 protection class in accordance with EN 60529
- PSTN modem module for analogue telephone networks
- Alternative Ethernet interface
- Transparent readout
- Output for external power supply for connected volume converter
- Equipped with connection cables for immediate use (not including mains cable)

| Technische Daten | |
|--|--|
| Order number | 83 480 430 |
| Housing | ABS plastic housing for wall mounting |
| Dimensions | 160 x 160 x 90 mm (width, height, depth) (not including connections) |
| Weight: | Approx. 1.4 kg |
| Protection class | IP66 in accordance with EN 60529 |
| Ambient conditions | <ul style="list-style-type: none"> - Temperature: 0 °C to +50 °C (operation and storage) - Humidity: max. 93%, non-condensing - No direct solar radiation |
| Power supply | 90 – 260 V AC, max. 4 watts, <ul style="list-style-type: none"> - Cable diameter 5-10 mm, cable connection M16 screw, - Cable cross section max. 3 x 1.5 mm², flexible or rigid Alternatively 18 – 30 V DC, max. 4 watts <ul style="list-style-type: none"> - Cable diameter 5-10 mm, cable connection M16 screw, - Cable cross section max. 3 x 1.5 mm², flexible or rigid |
| Modem or interface (optionally one module adaptable) | <ul style="list-style-type: none"> - PSTN modem for analogue telephone networks alternatively - Ethernet interface for use in a PC network (Intranet, Internet) for TCP/IP transmissions |
| Interfaces | <ul style="list-style-type: none"> - Serial data cable RS232 (RxD, TxD, DCD, DTR, Ri, Gnd), galvanically isolated via optocouplers - 9 V DC / 50 mA output for the external power supply to an EK220, EK260 or EK280 - recommended wire cross section 0.5 - 1 mm² |
| EMC | Emitted interference: EN 55011, class B EN 61326, table 4, class B Interference resistance: EN 61000-6-2, VDE 0839-6-2, EN61326, EN12405 |

Order information

In order to produce the EM260 modem in accordance with the required specifications, it is necessary to provide the following information:

Power supply

- 90 – 260 V AC
- 18 – 30 V DC

Modem / interface

- PSTN
- Ethernet

Distance metering device to modem

- less than 4 meters
- up to 10 meters

Additional advice

If the volume corrector is installed in a hazardous area, the following devices are available to separate the interface in the Ex-Zone from the connection to the telecommunication network:

FE260

Function extension unit, Ex-barrier, data communication and energy supply

Your contacts



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