Ethernet

RS485   **Serial interface KL6021-0023**

KL6023 wireless adapter with EnOcean radio receiver

HF transmitter

Battery-less switch with EnOcean radio transmitter

HF transmitter

HF transmitter

Battery-less temperature sensor with EnOcean radio transmitter

Range approx. 300 m in the free field and approx. 30 m in the building

KL6023 | Wireless adapter for EnOcean radio technology

The KL6023 wireless adapter receives signals from battery-less sensors with EnOcean technology. These signals are converted by the wireless adapter to a RS485 signal and directly processed further by the KL6021-0023 serial Bus Terminal. With a radio signal range of at least 30 m, the wiring of buildings can be simplified significantly.

The status LEDs of the wireless adapter are helpful during commissioning. The LEDs indicate all telegrams, received as faulty or faultless. With a distance of more than 300 m between the receiver and the Bus Terminal station, the receiver can be placed at any position within a building that is advantageous for radio transmission purposes. The system does not limit the number of transmitters per receiver unit. In practice, between 25 and 100 transmitters per receiver are used.

Technical data	KL6023
Connection	2 x 2-wires directly at the KL6021-0023 Bus Terminal
Power supply	via KL6021-0023 Bus Terminal with electrical isolation
Connecting cable	up to 300 m
Configuration	not required
Frequency band	868.35 MHz
Data transfer range	300 m in the free field, 30 m within buildings
Radio telegram	depending on the sensor type (32 bits sensor ID number, the number of useful bytes is not limited.)
Receiving antenna	integrated in the housing
Housing	box: polystyrene (grey) with M16 high-strength cable gland for cable connection; cover: polycarbonate (transparent)
Dimensions (W x H x D)	52 mm x 50 mm x 35.5 mm
Weight	approx. 55 g
Operating/storage temperature	0…+55 °C/-25…+85 °C
Relative humidity	95 %, no condensation
Protect. class/installation pos.	IP 66/variable
Further information	www.beckhoff.com/KL6023

Accessories	
KL6021-0023	serial Bus Terminal for processing the RS485 signals from the KL6023 wireless adapter with EnOcean radio technology `595`
TwinCAT PLC Serial Communication EnOcean	free licence for using the PLC library for processing of data from the KL6023 wireless adapter or the KL6021-0023 serial Bus Terminal `1171`

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