IoTKey® Ex for wireless measurements in ATEX environments

WIRELESS FLEXIBILITY FOR INDUSTRIAL MEASUREMENTS

- Reliable long range and low power wireless data communication
- Inputs for up to 3 sensors per transmitter (2 x temperature, 1 x mA / V)
- Cost-efficient, fast and simple option for wired installations
- For both stand-alone measurements and integrated solutions
- Easy to scale up with new sensors and locations
- Battery and external power supply options.

APPLICATON EXAMPLES

- Preventive maintenance and problem diagnostics for heat exchangers, pumps, fans, bearings, gears, etc.
- Remote monitoring for container levels and process temperatures
- Environmental measurements and monitoring of air, water, soil, etc.
- Mobile measuring sets for temporary condition monitoring of machines and production facilities.

XD EXD models for one transmitter applications
ATEX rating: II 2 G Ex db ib mb IIC T6 Gb
II 2 D Ex tb ib mb IIIC T85°C Db

GUB EXD models for up to four transmitter applications
ATEX rating: II 2 G Ex db ib mb IIC T6/T5 Gb
II 2 D Ex tb ib mb IIIC T85°C/T100°C Db
Technical data

<table>
<thead>
<tr>
<th>WLT310 B / E XD-I / XD-SI EXD</th>
<th>WLT310 B / E GUB EXD</th>
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<tr>
<td><strong>Type</strong></td>
<td><strong>Supply voltage</strong></td>
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<td>WLT 310 868 MHz</td>
<td>B Battery operated</td>
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<tr>
<td>E Ext. supply 12 or 24 V DC</td>
<td>XD-SI AISI 316</td>
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- **Weight**: 1.6 kg / 5.1 - 5.5 kg
- **Measurements (H x W x D)**: 126 x 145 x 108 mm / 198 x 320 x 152 mm
- **Housing material**: XD-I: Aluminium, XD-SI: AISI 316
- **IP-class**: IP65…IP68 dependent on cable glands
- **Wire size (max.)**: 1 x 1.0 mm², stranded wire
- **ATEX rating**: II 2 G Ex db ib mb IIC T6 Gb / II 2 G Ex db ib mb IIC T6/T5 Gb / II 2 D Ex tb ib mb III C T85°C Db / II 2 D Ex tb ib mb III C T85°C/T100°C Db
- **Operating temperature with battery**: T6/ T85°C: -25…+60 °C / T6/ T85°C: -25…+40 °C / T5/ T100°C: -25…+60 °C
- **Operating temp. with external supply**: T6/ T85°C: -40…+60 °C / -40…+60 °C
- **Conformity standards**: EMCEN 61326-1:2013 and EN 301489 / EN 61326-1:2013 and EN 301489
- **RF**: EN 300 220-1 v2.4.1 / EN 300 220-1 v2.4.1
- **Vibration**: EN 60068-2-6 / EN 60068-2-6
- **ATEX certificate**: EESF 18 ATEX 029X / EESF 18 ATEX 030X
- **LoRaWAN Certified™ product**

* Depends on battery manufacturer’s technical specification and Ex temperature class
** WLT 310 Transmitter and battery holder tested but not the complete construction!