

IoTKey® Ex for wireless measurements in ATEX environments



APPLICATION 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.

WIRELESS FLEXIBILITY FOR INDUSTRIAL MEASUREMENTS

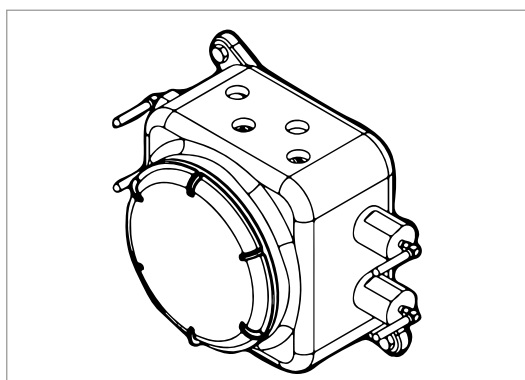
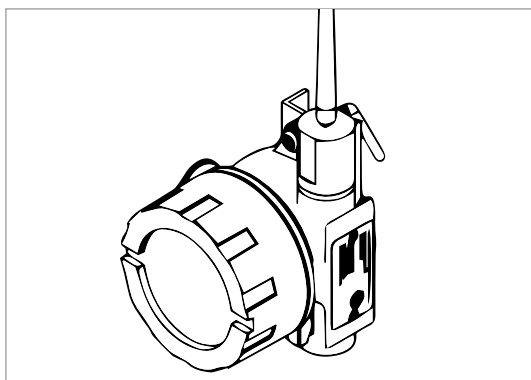
- Reliable long range and low power wireless data communication
- Inputs for up to 3 sensors per transmitter (2 x temperature, 1 x mA / V)
- Cost-efficient, fast and simple option for wired installations
- For both stand-alone measurements and integrated solutions
- Easy to scale up with new sensors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



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



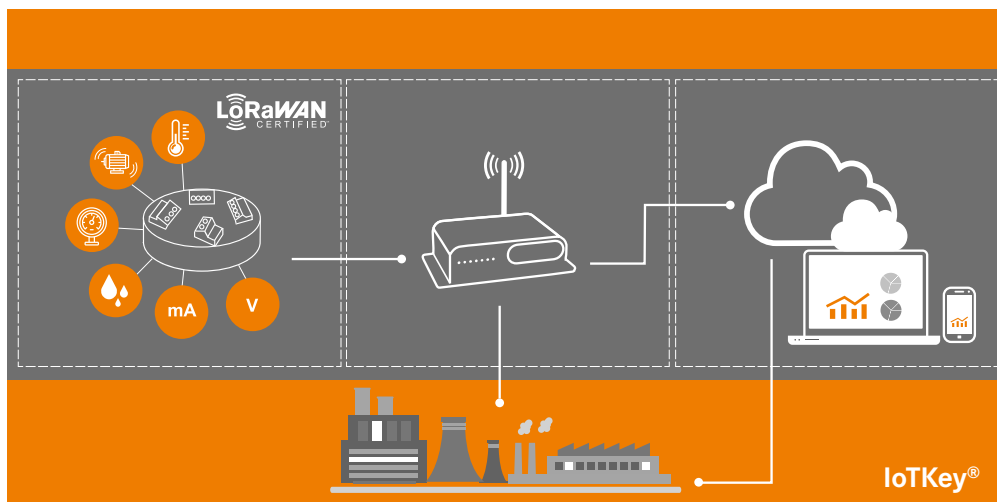
GUB EXD models for up to four transmitter applications
ATEX rating: II 2 G Ex db ib mb IIC T6/T5 Gb
 II 2 D Ex tb ib mb IIIC T85°C/T100°C Db



WLT310 B / E XD-I / XD-SI EXD			
Type	Supply voltage	Housing material	Cable gland threads
WLT 310 868 MHz	B Battery operated	XD-I Aluminium	1 X M20X1,5 right side 1 X M20X1,5 bottom
	E Ext. supply 12 or 24 V DC	XD-SI AISI 316	

WLT310 B / E GUB EXD					
Type	Transmitter	Supply voltage	Housing material		Cable gland threads
WLT 310 868 MHz 2XWLT 310 868 MHz 3XWLT 310 868 MHz 4XWLT 310 868 MHz	1 pc	B Battery operated	GUB	Aluminium	Application dependent
	2 pcs				
	3 pcs	E Supply 12 or 24 V DC			
	4 pcs				

Technical data	WLT310 B / E XD-I / XD-SI EXD	WLT310 B / E GUB EXD
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	Aluminium
IP-class	IP65...IP68 dependent on cable glands	IP65...IP66 dependent on cable glands
Wire size	(max.) 1 x 1.0 mm ² , stranded wire	(max.) 1 x 1.0 mm ² , stranded wire
ATEX rating	II 2 G Ex db ib mb IIC T6 Gb II 2 D Ex tb ib mb IIIC T85°C Db	II 2 G Ex db ib mb IIC T6/T5 Gb II 2 D Ex tb ib mb IIIC 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		
EMC	EN 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 ^{CM} product		
*) Depends on battery manufacturer's technical specification and Ex temperature class		
**) WLT 310 Transmitter and battery holder tested but not the complete construction!		



For detailed IoTKey® Transmitter specifications please refer to datasheet EPIC® SENSORS WLT 310.
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