



Wireless ultrasonic sensor

WS-UCC2500-F406-B15-B41-01-01

- Battery operated
- Data transfer via LoRaWAN
- Bluetooth interface for commissioning, parameterization and diagnostics

Wireless ultrasonic sensor with LoRaWAN interface



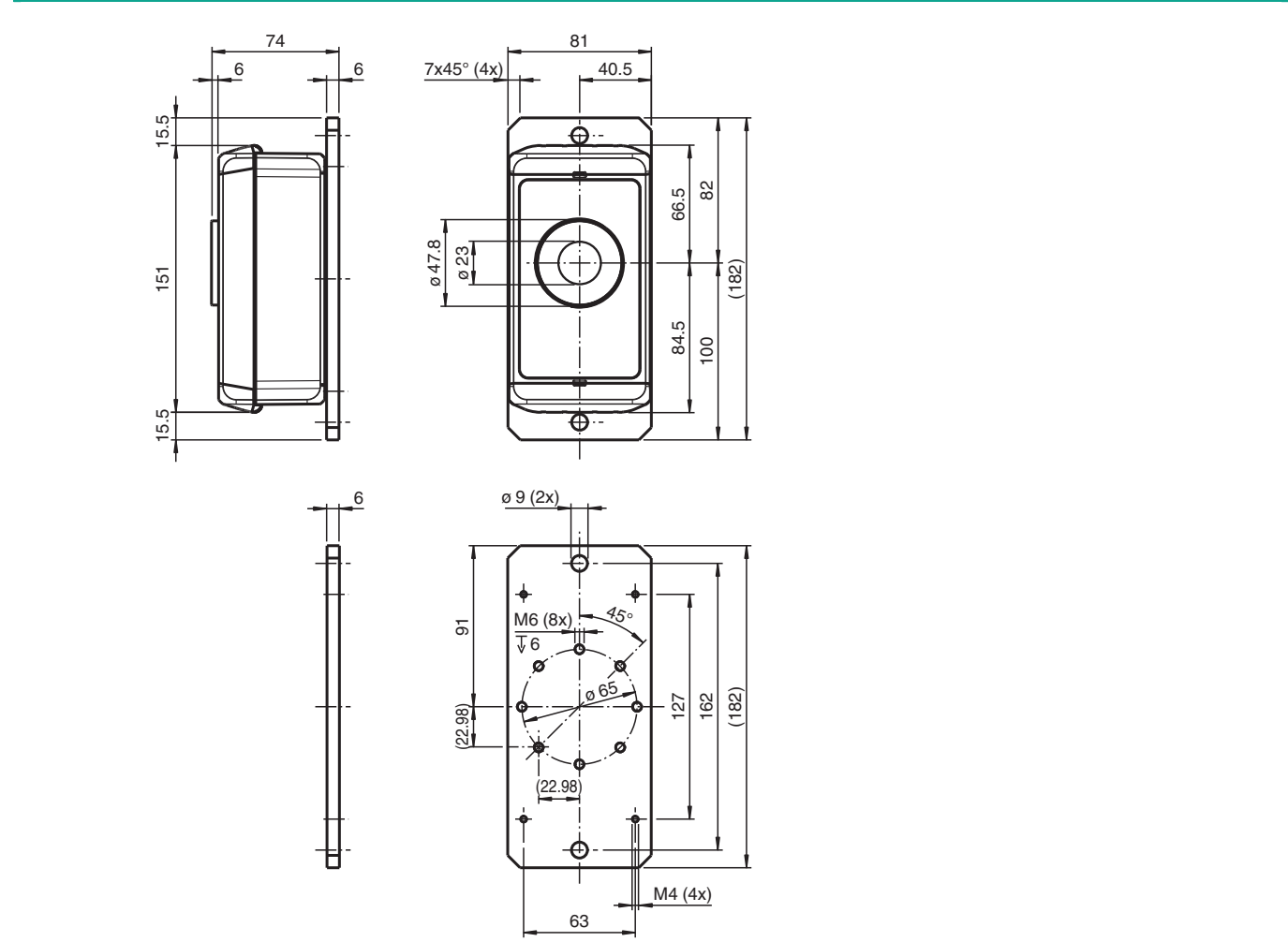
Function

The wireless ultrasonic sensor can be used for remote monitoring of fill level.

The fill level, but also other parameters such as geo data and sensor status data, are measured or recorded in configurable time intervals and transmitted to a counterpart in the LoRa network from where they are available for pure display or further processing.

The sensor is parameterised via a Bluetooth interface using a mobile device (smartphone or tablet) and the WILSENcontrol app belonging to the sensor.

Dimensions



Technical Data

Frequency range	2402 ... 2480 MHz
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Technical Data

Interface 2

Interface type	LoRaWAN
Specification	LoRaWAN interface specification V1.0.3
Device type	LoRaWAN class A device
Transmitter frequency	868 MHz
Transmitter radiated power	+ 8 dBm
Frequency range	863 ... 870 MHz (Europe)
Transfer frequency	5 min ... 24 h

Directive conformity

Electromagnetic compatibility	
Directive 2014/30/EU	EN 301 489-1 V2.2.0:2017 EN 301 489-3 V2.1.1:2019 EN 301 489-17 V3.2.0:2017 EN 301 489-19 V2.1.0:2017
Radio and telecommunication terminal equipment	
Directive 2014/53/EU	EN 300 220-2 V3.1.1:2017 EN 300 328 V2.1.1:2016 EN 303 413 V1.1.1:2017
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09

Conformity

Mech. capacity	EN 60947-5-2:2007 + A1:2012 IEC 60947-5-2:2007 + A1:2012
Shock resistance	EN 60947-5-2:2007 + A1:2012 IEC 60947-5-2:2007 + A1:2012
Vibration resistance	EN 60947-5-2:2007 + A1:2012 IEC 60947-5-2:2007 + A1:2012
Climatic conditions	EN 60947-5-2:2007 + A1:2012 IEC 60947-5-2:2007 + A1:2012

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Degree of protection	IP66 / IP67
Material	
Housing	PC (UL94-V0)
Transducer	PTFE coated housing: PBT
Mass	600 g

Factory settings

Beam width	medium (profile B)
Transfer frequency	24 h
Measurement frequency	8 h

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Characteristic Curve

Characteristic response curve

