



DATASHEET

MiniQ

DESCRIPTION

MiniQ is an IoT device designed for volumetric measurement. Besides of the level detector, has been equipped with more sensors to provide information about the installation conditions.

This device adjusts to unpredictable and dynamic scenarios due to its small dimensions, remote set up and real time alarms generation. It can be used in many applications such as waste, waste water and industry 4.0.

KEY FEATURES

- Temperature sensor integrated for fire detection.
- Motion sensor to detect shaking, beating or unexpected movement.
- Remote set up: Max/Min Filling Level, volumetric sensor beam, dispatch time, dispatch frequency.
- High quality lithium battery cell with more than 10 years' lifetime (battery duration depends on the dialy sampling period)
- Enclosure rating with IP67 certification.
- Easy installation by rivets or self-tapping screws.
- Wireless communication via RF SIGFOX for RC1, RC2 and RC4.



TECHNICAL FEATURES

Communications

Version	SigfoxRC1	SigfoxRC2	SigfoxRC4
Frequency band	868 MHz	902 MHz	920 MHz
Power (Tx)	<+2 dBm	<+12 dBm	12 dBm
Receiver sensitivity (Rx)	-127 dBm	-129 dBm	-129 dBm
Antenna	Internal		

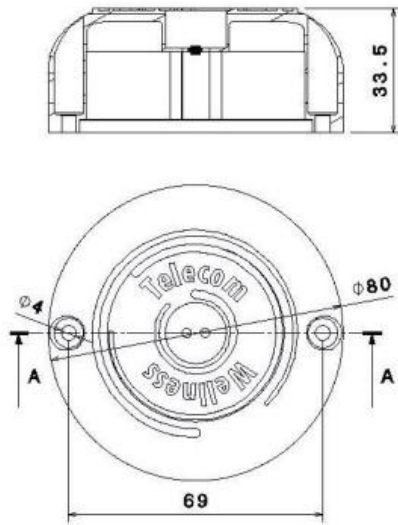
Sensor features

Sensor level	Ultrasonic sensor frequency: 40kHz Measurement ratio: 15cm – 500cm (accuracy: 1cm)
Motion sensor	Integrated
Acoustic indicator	Integrated
Temperature sensor	Integrated
GPS	Integrated. CEP 50 < 2.5 m
Alarms	Max Filling Level, low battery, location change, container shaking and fire detection



ORDERING CODES

MQ-00-SX-RC1 miniQ device, Sigfox RC1-868
MQ-00-SX-RC2 miniQ device, Sigfox RC2-902
MQ-00-SX-RC4 miniQ device, Sigfox RC4-920
MQ-0G-SX-RC1 miniQ device, GPS, Sigfox RC1-868
MQ-0G-SX-RC2 miniQ device, GPS, Sigfox RC2-902
MQ-0G-SX-RC4 miniQ device, GPS, Sigfox RC4-920



TECHNICAL FEATURES

Power supply & Memory

Battery features	Thionyl chloride- Lithium 3.6V
Battery life	>10 years*

Environmental and Operating conditions

Operating temperature range	-40°C to +80°C
Protection class	IP67
Impact factor	IK10
Lifetime	MTBF>90.000 h according to Telcordia SR-332

Compliance

Compliance	ETSI EN 300 220-1 V3.1.1 FCC 47 CFR Part 15 Subpart C: October 202
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Mechanical features

Dimensions	80x33.5 mm
Weight	150 gr. (including battery)
Material	Polyamide

* Battery duration depends on the dialy sampling period

