

LoRaWAN™ REMOTE AIR VALVE CONTROL

Remote Control System for Air Valves



ACMO

VALVES AND TECHNOLOGIES FOR WATER WORLD

IN-FIELD UNIT (LoRaWAN™ TRANSMITTER)

- Data acquisition and transmission to the Gateway.
- Robust plastic cover, insulation grade IP68.
- Data protected by encrypted protocol with checksum.
- Long life battery guaranteeing at least 10 year life.
- Easy installation.

- Technical data:

Radio technology: 868 MHz or available frequency
Approval: CE, IETS 300-220
Data format: Encrypted security protocol AES 128
System operation: TX at preset intervals (2 hours)
Modulation: LoRa™ Spread Spectrum
Transmission power: +14dbm
Operating distance: 15 km on open field
Operating temperature: -20°C +55°C norm. -30°C +70°C max
Battery duration: 10 years
Antenna: Integrated and sealed 100%
Dimensions: H.146 x L.57 x P.43 mm
Weight: 150g
Protection: IP68
Assembly: Trough an integrated stainless steel bracket



RADIO STATION Gateway (LoRaWAN™ RECEIVER)

- Low power consumption.
- Long Range allows a better acquisition of data (up to 15 km on open field and up to 2 km in urban locations).
- Optimized costs using ISM bands (no- concession frequencies).
- High efficiency data transmission.
- Every Gateway can manage more than 10.000 in- field units.
- Bidirectional communication with the in-field units.

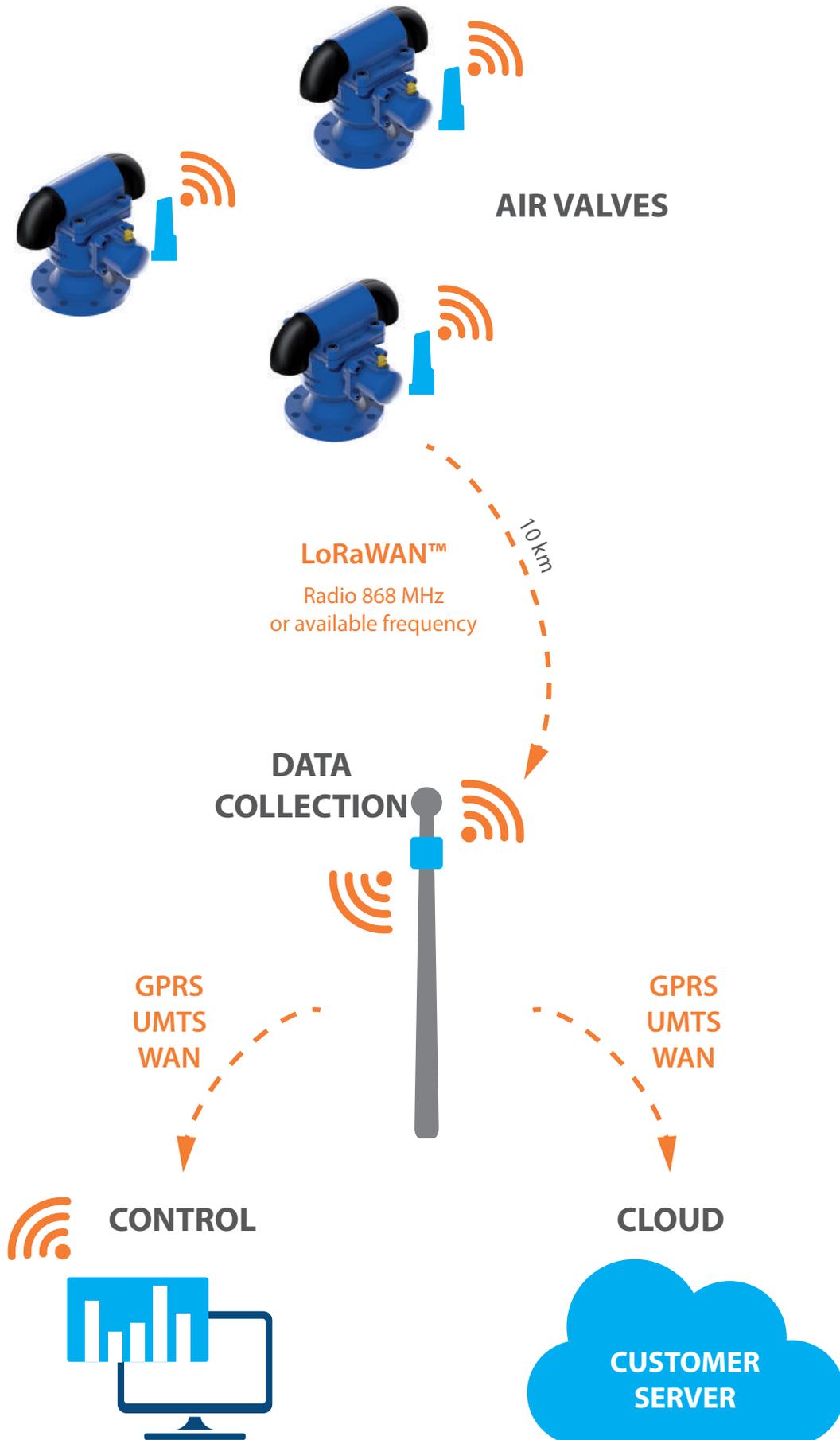
- Technical data:

Radio technology: 868 MHz or available frequency
Data format: Security encrypted protocol AES 128
Modulation: LoRa™ Spread Spectrum
CPU: ARM - platform Linux
Protocol: WAN (ETSI M2M), Ethernet
Modem: 3G With integrated IMEI code
LAN protocol: Open (IEEE 802,154 e 6LoWPAN) on LoRa™ channels
Channels: Up to 49
Dimensions: 170 x 300 x 300 mm - Weight 2.055 g
Protection: IP67
Operating temperature: min -20°C max +60°C
Local interface: Ethernet, Power Over Ethernet
Power input: AC 220Volt with PoE (class 1, 48V) or DC (10V to 30V)
GPS: Integrated



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ADVANCED COMMUNICATION INFRASTRUCTURE





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