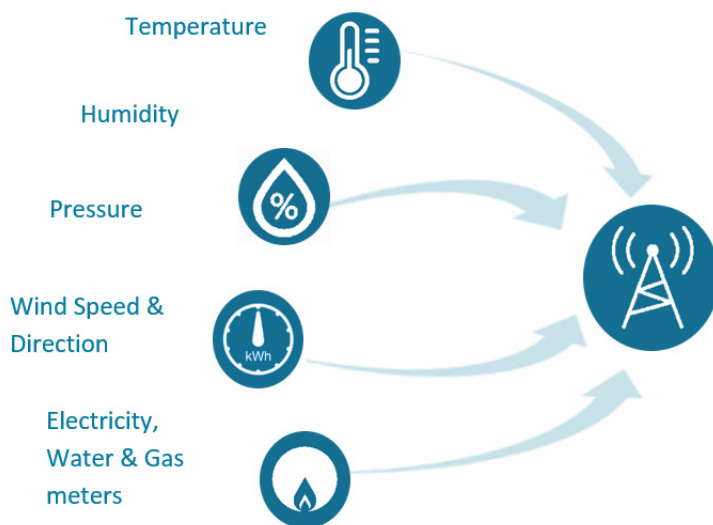


MetronR

Radio networks for sensors & meters

A low-maintenance, low cost range of radio telemetry devices, typically used for remote meter reading and environmental monitoring. The remote meter reading typically covers gas, water and electricity in factories, retail parks and apartments and leisure environments such as caravan parks. ATEX versions are available for gas metering applications. For environmental monitoring, the radio transmitters are available with a range of integral sensors including CO₂, temperature and humidity.



- **Rugged IP65 enclosure**
- **Simple & easy to install**
- **Range of options covering pulse, temperature & humidity**
- **Very long radio range**
- **Battery life in excess of 10 years possible**



MetronR Product Range



Pulse

Parameter	Details for standard unit	Details for ATEX unit
Enclosure & IP Rating	ABS-IP65	ABS-IP65
Dimensions (l x w x h)	118 x 79 x 43mm	118 x 79 x 43mm
Mounting	Wall / Collar / DIN rail (option)	Wall / Collar / DIN rail (option)
Radio Antenna	Embedded	Embedded
Inputs	2 x pulse (max 10Hz, 50mS minimum pulse width)	2 x pulse (max 10Hz, 50mS minimum pulse width)
Power Supply	Replaceable 3.6V D Lithium	Replaceable 3.6V AA Lithium
Working temperature	-20° C to + 55°C	-20° C to + 55°C
Radio	169MHz, standard wireless M-Bus. EN1357-4 2011	
Output power	500mW	100mW
Battery life	5 years with 5 minute transmissions (default). 10 years with 15 minute transmissions. Configurable from 1 to 250 minutes	
Code	MetronR-2P-169-500	MetronR-2PEX-169-500

Temperature and Humidity Inside

Parameter	Temperature	Temperature & Humidity
Enclosure & IP Rating	ABS-IP40	ABS-IP40
Dimensions (l x w x h)	99 x 85 x 32mm	99 x 85 x 32mm
Mounting	Wall	Wall
Radio Antenna	Embedded	Embedded
Sensor	Embedded Temperature (-40 to +125°C, +/- 0.3°C).	Embedded Temperature (-40 to +125°C, +/- 0.3°C). Embedded Humidity +/- 2% RH
Power Supply	Replaceable 3.6V c Lithium	Replaceable 3.6V c Lithium
Working temperature	-20° C to + 55°C	-20° C to + 55°C
Radio	169MHz, standard wireless M-Bus. EN1357-4 2011	
Output power	500mW	
Battery life	5 years with 5 minute transmissions (default). Configurable from 1 to 250 minutes	
Code	MetronR-TA-169-500	MetronR-TH-169-500

MetronR Product Range



With Temperature Sensors

Parameter	With contact probe	With embedded probe
Enclosure & IP Rating	ABS-IP65	ABS-IP65
Dimensions (l x w x h)	118 x 79 x 43 mm	118 x 79 x 43 mm
Mounting	Wall	Wall
Radio Antenna	Embedded	Embedded
Sensor	Temperature probe on 1.5m cable. -30 to +100°C (+/- 0.5°C)	Integral probe. -40 to +100°C (+/- 0.5°C)
Power Supply	Replaceable 3.6V D Lithium	Replaceable 3.6V D Lithium
Working temperature	-20° C to + 55°C	-20° C to + 55°C
Radio	169MHz, standard wireless M-Bus. EN1357-4 2011	
Output power	500mW	
Battery life	5 years with 5 minute transmissions (default). Configurable from 1 to 250 minutes	
Code	MetronR-TC-169-500	MetronR-TE-169-500

Each receiver can accept signals from 32 slaves and require a 7.5 to 24Vdc power supply. We have available a range of antenna's (image shows ANT-169-SMA).

The interface is RS485 supporting MODBUS RTU. Transmitters are paired to the receiver and the MODBUS address is defined. 32 Modbus slaves can be connected on each network.

Powelectrics offer solutions that enable these readings to be viewed securely via the internet using our MetronVIEW hosted software platform.

