

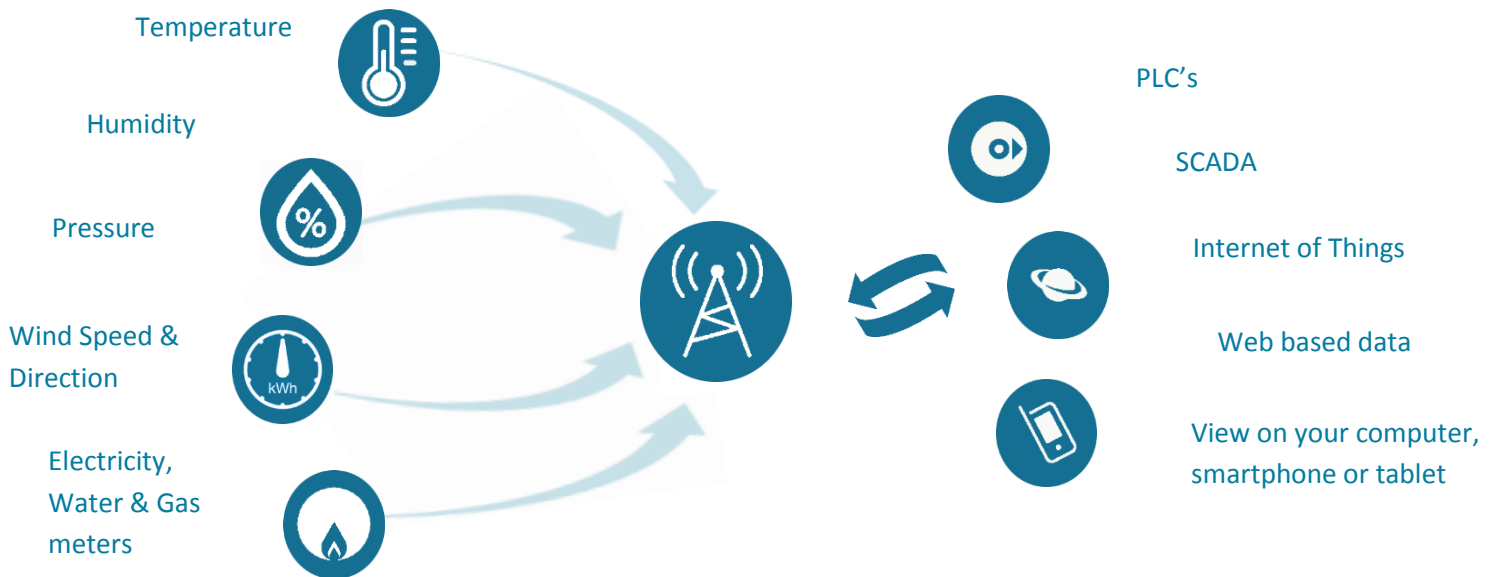
## Radio Networks for Sensors and Meters

- 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



The Metron R range of radio telemetry solutions include battery powered transmitters with pulse inputs or are available with a range of integral sensors. For the pulse version we have an ATEX approved option making it suitable for gas metering applications.

Our range testing has seen us communicate over distances in excess of 5 miles (8 kilometres) with the 500mW 169MHz devices so even if you have obstructions then you can be confident that the equipment will work to get signals from across your factory or estate. If you can't get a signal then we have a repeater available.



**Technical details for the pulse counting units:**

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



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**Technical details for the Ambient Temperature & Humidity units:**

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



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**Technical details for the Temperature Sensor units:**

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



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### Receiver

Each receiver can receive 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. Through the setup software you pair the transmitters to the receiver and define the MODBUS address the data is read on. You can have 32 Modbus slaves on each network.

Powelectrics offer solutions that enable these readings to be viewed securely via the internet.



### Web based data

We can provide a GSM connectivity to the solution enabling the devices to report to our Metron VIEW server. You can view data on your computer, smart phone or tablet. We can send alarms. Data can be collected via an API. We have the ability to provide you with custom interfaces and reports.

