



Transformation. Without Disruption

THE ADD-ON ANSWER

NO NETWORKING CONSTRAINTS

DATA-DRIVEN SAVINGS

» **An end-to-end water solution:** Cyble 5 provides information to help you better manage your entire water distribution system and accelerate leak resolution. Itron's powerful cloud-based platform Temetra is designed to support utilities in achieving these goals.

The diagram illustrates the Temetra® AMI solution architecture. It shows a central cloud-based data center labeled "temetra®" and "Cloud-Based Meter Data Collection and Visualization (Temetra® or 3rd party)". This cloud is connected to four different meter types: "Cyble 5" (a small device on a building), "RF Master 5" (a handheld device), "Walk-By" (a person with a handheld device), and "Drive-By" (a vehicle with a handheld device). These meters are connected to a central "AMI" (Advanced Metering Infrastructure) tower. The AMI tower is also connected to the cloud. The cloud is further connected to a database icon labeled "Integration with 3rd party systems (e.g. billing)".

Specification Sheet

MORE OPERATIONAL DATA

Cyble 5 helps utilities overcome key operational challenges by transforming data collected through AMR and/or AMI. Delivering timely, relevant, and extensive data sets, Cyble 5 allows for a better understanding of resources and improved customer relationships.

Billing index & consumption data logging

Daily billing and custom billing functions with precise 15-min resolution consumption data.

Meter sizing

Precise monitoring of the distribution flow recurring calculation of minimum and maximum values help detect meter sizing errors.

Sanitary risk prevention

Detection and quantification of backflow to help assess water quality and/or sanitary risk.

Alerts

Alarms are generated when important events are detected, such as:

- » Customer premise leaks (continuous flow)
- » Tamper attempt (dismantling)
- » Blocked meter (zero consumption)
- » Oversize/undersize
- » Water quality (high temperature)
- » Low battery
- » Time synchronisation failure

Technical Specifications

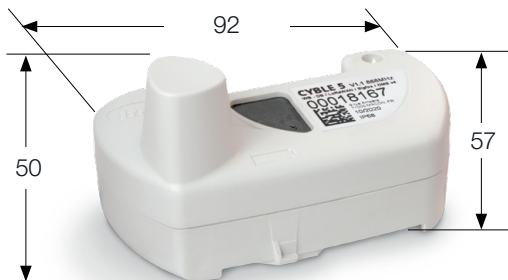
Radio Frequency Features

Protocol	wM-Bus T2/C2, LoRaWAN™, Sigfox®, OMS v4
Modulation	FSK, BPSK (Sigfox®), CSS (LoRa®)
Frequency carrier	915-928 MHz (AMI) and 434Mhz (AMR)
Radiated power	< 25 mW
Battery lifetime	Up to 15 years

Functional Specifications

Power source	Lithium batteries
Protection	IP 68
Relative humidity	0 to 100% - submersible
Operating temperature*	-10°C / +55°C
Accidental temperature	-20°C / +70°C

* Under normal applications with the specified reference operating conditions.



Dimensions (mm)

PROVEN VALUE

The first version of the Itron radio modules have been in the field since 2001 and are still operating reliably today. We have deployed more than 200 million communication modules, including 2 million Cyble 5 units.

Cyble 5 is the latest evolution of our AMR/AMI modules, proven to deliver exceptional quality and return of investment.

» Designed for the field

Easy to connect through a clip-on design with no wiring or wall mounting required, Cyble 5 is compact with an integrated antenna allowing for use in a wide range of existing meter-box installations.

» Robust under severe conditions

Designed to resist water, contaminants, corrosion, rough handling, and temperature cycling for a reliability over time. Cyble 5 comes standard with IP68 certification.

» Fine-tuned by decades of industry expertise

Itron's patented technology ensures that the Cyble module docks perfectly on the mechanical meter and does not move, resulting in sustained accuracy over time. Cyble 5 is compatible with Itron's Cyble-ready range of mechanical water meters.

COMPLIANCE

- » IP68 certified according to EN 60529
- » AS/NZS 62368-1
- » AS/NZS 4268
- » AS/NZS CISPR32
- » EN 300 220

CONNECTIVITY CERTIFICATIONS

- » LoRaWAN R1.0.4
- » Sigfox V2.6.0
- » OMS V4.1.2



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