

Cyble™ Coder

Encoded Cyble Technology for AMR Applications

Key Features

- ▶ Compatible with all Actaris water meters
- ▶ Compatible with existing Touch Pad and Radio AMR systems
- ▶ Residential, Commercial and Industrial meter installations



The Cyble Coder communication module uses Actaris patented technology to encode the absolute meter reading for use in Automatic Meter Reading systems (AMR). The module facilitates accurate, convenient retrieval of meter readings from residential, commercial and industrial meter installations in hard to access meter pit, vault or indoor locations.

Cyble Pre-equipment

Cyble Coder is compatible with all Actaris water meters pre-equipped with the Cyble target. It can be easily retrofitted and installed on meters already in the field without changing the register. This facilitates field implementation of AMR and enables a utility to easily and economically upgrade or change AMR systems without having to change the meter or the register. Alternatively, meters can be shipped with Cyble Coder already mounted to the meter at the factory.

Cyble Coder Compatibility

Cyble Coder meter data, which consists of the register ID number and the odometer reading, is communicated in the same ASCII format used by most of the data-communications industry.

Cyble Coder can operate in either 2-wire or 3-wire mode, making it compatible with existing Touch Pad and Radio AMR systems.

Cyble Coder Reliability

Proven by nearly one million installed Cyble modules, this patented technology ensures reliable remote meter reading. Magnetic tampering is impossible since the non-magnetic target is not influenced by magnetic fields. Cyble Coder is designed to withstand harsh environments and, with its NEMA 4X enclosure, can operate for its entire life in a flooded pit or meter vault. Meters equipped with Cyble Coder benefit from the robustness of a register with a forged glass lens and copper shell, rather than a typical plastic enclosure found on most competitors' encoded registers.

Cyble Coder Reading Data

Cyble Coder encodes the meter index as an 8 digit value for improved meter reading resolution. Remote meter readings are configurable to between 4 and 8 digits (4 "wheel" to 8 "wheel"). Cyble Coder register ID number is configurable from 1 to 10 digits.



► Cyble Coder module fitted on Flostar



► Touch Pad options (Wall version)

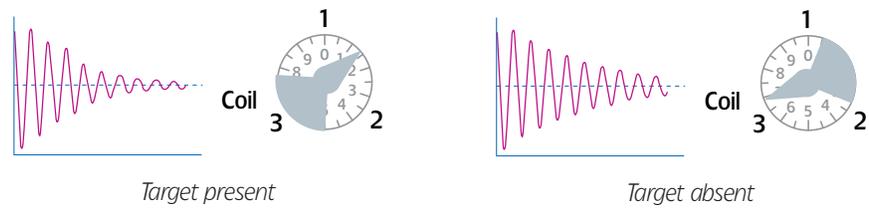


► Touch Pad options (Pit version)

Technical Characteristics

Dimensions	0.8 x 2.0 x 3.4 inches	19.6 x 51 x 86 mm
Operating temperature	0°F to 140°F	-15°C to 60°C
Storage temperature	-10°F to 160°F	-20°C to 70°C
Case protection	NEMA 4X	IP 68
Power source	Lithium battery, not replaceable	
Battery life time	12 Years	
Connecting wire	5 wires - The cable is AWG24	
Cable length	25 ft	7.5 m
Reading distance	Up to 500 ft	Up to 150 m

Target Principle



High frequency electrical oscillations are periodically generated in the coils. The Eddy currents in the target, when in front of the coil, will damp these oscillations. An electronic device detects the damped - undamped state of the coil.

As only the difference between undamped and damped state is detected the principle is not influenced by the variation of temperature and component characteristics.

