

# Cyble

## AMR Applications Cyble Coder and Cyble Sensor



- Two Cyble module choices: the Cyble Coder and the Cyble Sensor
- The Coder is compatible with all major touch pad and radio AMR systems.
- The Sensor is compatible with various pulse receiving AMR and remote reading devices.
- Both modules may be used in residential, commercial, industrial, and submetering applications.



### Overview

Actaris's Cyble technology allows flexibility in accommodating the water meter to current and future AMR and remote reading requirements. The register is equipped with the standard Cyble target, allowing a Cyble module to read the register. When a module is installed, magnetic tampering is impossible since the target is non-magnetic. The module's enclosure allows for operation even in flooded pits. If the initial installation purpose did not include AMR technology or remote reading, a Cyble module can be easily installed on any Actaris meter in the field without upgrading the register.

### The Cyble Coder

The Coder is configured for a 3 wire connection, making it compatible with most major touch pad and AMR systems.

The meter data collected from the Cyble Coder consists of the register ID number and the odometer reading. This is communicated in the same ASCII format used by most of the data-communications industry. The Coder encodes the meter index as an 8 digit value for improved meter reading resolution. Remote meter readings are configurable between 4 and 8 digits, or 4 wheel to 8 wheel. The register ID number is configurable from 1 to 8 digits in the Coder.

### Coder Characteristics

Dimensions	0.8 x 2.0 x 3.4 inches	19.6 x 51 x 86 mm
Battery life		12 years
Cable length	5ft or 25ft	1.52m or 7.62m
Wire connection		3 wires
Working temperature	0 F to 140 F	-15 C to 60 C
Storage temperature	-10 F to 160 F	-20 C to 70 C
Protection	NEMA 4X	IP 68
Reading distance	Up to 500 ft	Up to 152 m

## The Cyble Sensor

The Cyble Sensor is used for various remote reading applications of any size. Backflow and pulses are detected and compensated so that the meter index and remote register are always identical. The data from this patented sequence is key for use in billing applications.

The Sensor provides a pulse output signal equivalent to that of a dry contact reed switch. Ten rotations of the Cyble target will cause one pulse to be sent from the Sensor to a remote AMR device. Unlike most reed switch (pulse) type registers, the Cyble Sensor is not susceptible to magnetic tampering. The Sensor provides an accurate and reliable pulse output AMR solution.



## Sensor Characteristics

Dimensions	0.8 x 2.0 x 3.4 inches	19.6 x 51 x 86 mm
Battery life	12 years	
Cable length	15ft	4.57m
Wire Connection	two wires (no polarity)	
Working temperature	15°F to 130°F	-9.4°C to 54.4°C
Storage temperature	-5°F to 130°F	-20.5°C to 54.4°C
Protection	IP 68, NEMA 4X	
Max current (mA)	100	
Max voltage (V)	30	
Pulse type	dry contact reed switch equivalent	