

# ITRON K1 CYBLE sensor for blue logger

Pulse transmitter for acquisition and remote transmission of water metering information

- Quick and easy installation on Itron water meters
- 1 pulse = 1L or 10L depending on the water meter
- Internal battery, minimum life of 12 years
- Very compact
- IP68 sensor
- Connected to a Blue logger :
  - On-site radio configuration and reading, integrated 2G / 4G (LTE-M/NB-IoT) communication card option
  - Hourly and daily cumulative
  - Calculation of night-time flow rates (average, minimum, maximum)



Features	
<b>Part number</b>	EPK1-0002
<b>Compatibility</b>	M12 12pts connector to <i>BLUE</i> et <i>BLUE-LP</i> loggers
<b>Internal battery / Autonomy</b>	Yes / 12 years minimum
<b>Operating temperature</b>	-10 to +55°C
<b>Storage temperature</b>	-20 to +55°C
<b>CE standard</b>	EN 50081-1, 50081-2, 50082-1, 50082-2
<b>Dimensions / weight</b>	L 93 mm x l 37 mm x H 29,5 mm / 239 g
<b>Connector</b>	Inox, 12 pts
<b>Cable</b>	5 meters moulded cable
<b>Sealing grade</b>	IP68

## Operating principle

The Cyble sensor integrates an electronic circuit with three detection coils (Itron patent). When in use, the target on the meter's totalizer moves successively in front of each of the coils, depending on the water flow rate. Thanks to the effect of eddy currents, the signal emitted by each coil varies in response to the presence of the target, enabling it to be detected. This system is particularly effective, as it can determine the direction of rotation of the needle, indicating the flow of water to and from the target.

A pulse signal is generated when the needle completes one revolution, confirming that the target has been detected in a precise sequence by the three coils.



**The Blue logger, autonomous, communicating locally by radio, and remotely by 2G/4G (LTE-M, NB-IoT), records pulse values (100Hz max) and transmits them to server/SCADA software.**