

Cyble Sensor ATEX

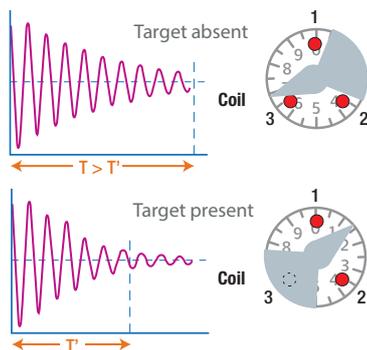
A Smart Pulse Transmitter for Gas Meters

The Cyble Sensor ATEX has been designed specifically for gas utilities needing to connect electronic devices with an LF pulse input, such as volume converters to a gas meter. It can be mounted at any time onto any Dresser Actaris Gas or Itron gas meter equipped with an universal totaliser or diaphragm meter with c-index. It provides a completely flexible solution for current or future remote reading technologies.

Principle of Operation

The Cyble Sensor ATEX works as follows:

- » A Cyble target is fitted as a standard into the universal totaliser. It rotates proportionally to the registered volume of gas.
- » 3 coils fitted in the Cyble Sensor ATEX detect the rotation of the target by measuring the change of induction in front of each coil.
- » An electronic board records the complete rotation of the target. This detects and compensates for any backflows: the meter index and remote register are identical. When a complete rotation is validated, a pulse is sent out at the output of the Sensor.



Applications

The Cyble Sensor ATEX can be mounted onto the Fluxi 2000/TZ, Delta and MZ meters and on any diaphragm meter with Cyble target.

It can be used to ensure reliable transmission of the non-converted volume from the meter to the Dresser Utility Solutions Corus Evo+ or Corus Evo Compact volume converter or to any

KEY benefits

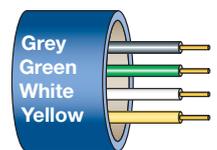
- » High reliability for remote reading.
- » Magnetic tampering is impossible.
- » Easily retrofittable (no breaking of seals) onto meters equipped with the universal totaliser.
- » Long term experience: Since 1995, more than 5 M. modules in the field

volume converter using a standard low frequency input.

The Cyble M-Bus and Cyble SC presented are also available for other applications.

They can also be used to ensure a reliable remote reading of the meter.

Connection:



Technical Specifications

Intrinsic safety approval	L.C.I.E. 06 ATEX 6044 X
Intrinsic safety level	Ex II 1 G Ex ia IIC T3 Ga
Signal output	<ul style="list-style-type: none"> $U_i \leq 15$ Volt $I_i \leq 900$ mA No polarisation to be observed: wires white and yellow Type dry contact equivalent Anti-tampering (AT): wires grey and green.
Cable length	5 m
Power supply	<ul style="list-style-type: none"> Lithium battery - not replaceable Life time > 12 years (in normal applications within the specified temperature range)
Working temperature	-25°C to +55°C
Storage temperature	-25°C to +55°C
Protection	IP68
E.M.C standards	EN 61000-6-2, EN 61000-6-3, EN 60947-5-6



Other types of Cyble Sensors available

Cyble Sensor without ATEX type approval

It provides the same functionalities as the Cyble Sensor ATEX.

Cyble M-Bus

It can be used to integrate the Dresser Actaris Gas or Itron gas meters into a M-Bus network. In addition to the meter reading, Cyble M-Bus also provides smart functions such as database management.

It provides all relevant data compliant to EN 13757-2 and EN 13757-3.

Cyble SC

Its serial communication provides an error free value of the meter index to be transmitted with the highest reliability to the volume converter or data logger. Standards Compliance:

- » Namur according to EN 60947-5-6. Unidirectional ASCII protocol according to DVGW document.
- » L-Bus according to EN 13757-3 and EN 13757-6.
- » ATEX type approval:  II 2 G Ex ib IIB T3 Gb



Fluxi 2000/TZ fitted with the universal totaliser and the Cyble Sensor ATEX

Installation of the Cyble Sensor ATEX onto the meter



1) Mounting



2) Screwing



Universal totaliser fitted as standard with Cyble target



3) Sealing

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