



aircom Pulse ATEX

Pulse Module for Gas Meters in Explosive Atmospheres (ATEX)

Specifically designed for gas utilities that needs to connect electronic devices with LF pulse input (e.g. Electronic Volume Correctors, Retrokit) to a gas meter.

It can be mounted onto any gas meter with a totalizer that is pre-equipped with 'Cyble™ target'

KEY FEATURES AND BENEFITS

Provides high reliability for remote reading.

Magnetic tampering is impossible.

Easy to retrofit onto existing meter park. No breaking of seals needed.

Proven inductive target and sensing technology with 30+ years of track record.

WORKING PRINCIPLE

1. An inductive target disc (Cyble target ) is fitted as standard into Dresser Actaris Gas™, Itron™ and Manas gas meters . It rotates proportionally to the measured consumption volume of the gas.
2. Three coils fitted in aircom Pulse ATEX can detect the rotation of the target by measuring the change of induction in front of each coil.
3. An electronic board records the complete rotation of the target. This detects and compensates for any backflow. When a complete cycle is validated, a pulse is sent out at the output of the sensor. This keeps meter index and remote register identical.
4. Tamper detection: Unauthorized dismantling of aircom Pulse ATEX from its meter will generate an alarm.

APPLICATIONS

aircom Pulse ATEX can be mounted on Dresser Actaris Gas | Itron branded Fluxi2000/TZ, Delta, MZ, ACD | BGZ meters and MANAS M4Com meters.

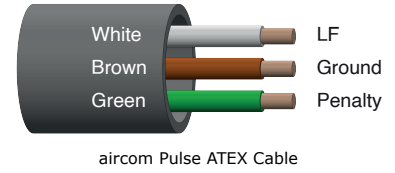
It is used for reliable transfer of the non-corrected volume from the meter to any electronic volume corrector (EVC), datalogger or smart system (e.g. BMS, smart valve) using standart low frequency input.

MANAS also offers aircom NB-IoT and aircom LoRa (LoRaWAN) versions to be used for reliable remote reading of the meter.



TECHNICAL SPECIFICATIONS

ATEX Safety Approval	IEP 24 ATEX 1482U
ATEX Safety Level	II 1G Ex ia, ma IIC T4 Ga
Signal Output Parameters	$U_i \leq 30V$ $I_i \leq 500 \text{ mA}$ 3 Wires LF Pulse : White Ground : Brown (Common) Penalty (Anti-Tamper) : Green
Cable Length	5 m
Power Supply	Lithium battery – non replaceable Lifetime 14+ years*
Working Storage Temperature	-25 °C to +55 °C
Protection	IP68
E.M.C. Standards	EN IEC 61000-6-2 EN IEC 61000-6-3



Installation of
aircom Pulse ATEX
onto Gas Meter



1.Mounting



2.Screwing



3.Sealing

aircom Pulse ATEX is suitable to be mounted onto any gas meter with a totalizer that is pre-equipped with Cyble target



Fluxi 2000/TZ Meters



Delta Rotary Meters



ACD | BGZ Meters



M4Com Meters

* Expected battery lifetime under normal | datasheet conditions.

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