

AIRCOM PULSE ATEX

INSTRUCTION MANUAL

EU DECLARATION OF CONFORMITY



Distribué par :

Compteur-energie.com

+33 (0)3 60 80 00 10

commercial@compteur-energie.com



dresserutility.com



manas.com.tr

DESCRIPTION

1. An inductive target disc () is fitted as standard into select Dresser Actaris Gas™ 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: the meter index and remote register are identical. When a complete cycle is validated, a pulse is sent out at the output of the sensor.
4. Tamper detection: Unauthorised dislocation of aircom Pulse ATEX from its meter creates an alarm.

PACKAGE CONTENTS

1. aircom Pulse ATEX Module
2. 2 x Alternative Screws to Attach [Different screws depending on the meter type. Look for "Screw Specifications" section.]
3. Plastic Seal Cover (with Magnet)
4. 3 x Ferrules for the 3 wires
5. This Instruction Manual

ATEX INFORMATION

aircom Pulse ATEX is designed to be an ATEX material that is intended for use in potentially explosive atmospheres (European Directive 2014/34/EU) and that conforms to the following harmonized standards: **EN 60079-0:2018 & EN 60079-11:2012 & EN 60079-18:2015**. It is approved as group II, category 1G material. It can be used in zones 0 ,1 and 2 in presence **g**ases from the groups IIA, IIB and IIC and from the temperature class T4, within an ambient temperature range of **-25°C to +55°C**.

aircom Pulse ATEX Bears a Marking Containing Following Elements:

Type	aircom Pulse ATEX
Product Serial Number	XXXXXXXXX
Manufacturing Date	20xx
Manufacturer's name and address	MANAS, 1. OSB Sincan / Ankara
CE marking	CE 2284
Specific marking	 II 1G Ex ia, ma IIC T4 Ga IEP 24 ATEX 1482U
Ambient temperature range	-25°C to +55°C
K Factor Information	K:1

aircom Pulse ATEX is designed to be intrinsically safe, a type of protection consisting in using only electrical circuits in which no spark and no thermal effect produced in defined operating conditions, can provoke the inflammation of an explosive atmosphere.

The Manas site in Ankara is certified by IEP Uluslararası Enerji Petrol Gözetim Sertifikasyon ve Teknik Hizmetler Organizasyonu Ticaret Limited Şirketi (CE2284) for the production of ATEX products designed with intrinsic safety (i).

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COMMISSIONING, OPERATION AND MAINTENANCE INSTRUCTIONS

Maximum voltage and current allowable to the device: $U_{max} = 30V$, $I_{max} = 500mA$. Additionally, if the aircom Pulse ATEX is to be installed in a hazardous area, following instructions must be observed:

1. Applicable requirements of EN 60079-25 regarding installation must be taken in account. The national norms and standards about installation, start-up and maintenance of the devices and gas installations have to be strictly respected.
2. Installation personnel must respect the requirements of the European Directive 2014/34/EU on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.
3. Installation personnel must respect the requirements of the European Directive 1999/92/EC on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.
4. The battery is not replaceable. In the event of malfunction please contact Manas.
5. Any device that is intended to be connected to the aircom Pulse ATEX must be either an intrinsically safe apparatus or an associated apparatus and must comply with the **aircom Pulse ATEX's electrical parameters**:

aircom Pulse ATEX's Electrical Parameters

Module	Ui (V)	Ii (mA)	Pi (W)	Ci* (nF)	Li* (uH)	Uo (V)	Io (mA)	Po (mW)	Co (uF)	Lo (H)
aircom Pulse ATEX	90 30	500	1	3	0	3,9	1	1	999,9	1

*Equipment without cable. Electrical parameters of the cable: Capacitance $C = 50-100$ pF/m, Inductance $L = 2$ μ H/m.

**Any repair requirement must only be applied on authorization and under responsibility of Manas.

INSTALLATION

Delta TZ MZ — Meters	1 	2 	3 
ACD BGZ — Meters	1 	2 	3 

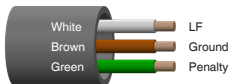
SCREW SPECIFICATIONS

Meter Type	Screw Specification
For Dresser Actaris Gas DELTA, TZ, MZ	ISO 7045 M4x40 Pan Head Phillips Machine Screw A2
For Dresser Actaris Gas Diaphragm Meters	Tapping screw DIN 7981-ST4.2x45 Pan Head Phillips ZN 20MnB4
For Manas M4Com Meters	Tapping screw DIN 7981-ST4.2x45 Pan Head Phillips ZN 20MnB4

CONNECTION TO THE VOLUME CONVERTER

aircom Pulse ATEX is fitted with 3 wires. White, Brown, Green.

Remark 1: The length of the cables must be reduced before crimping the included ferrules to the wires.



White: LF pin that aircom Pulse ATEX provides output of the measured consumption.

Brown: Ground pin. (Common pin for LF and Penalty)

Green: Penalty (Tamper) pin that aircom Pulse ATEX provides alarm when unauthorised dislocation.

Reference Connection to Corus Evo+

Corus Evo+		aircom Pulse ATEX
DIN	DI1	LF – White
	GND	Ground – Brown
	DI4	Penalty (Tamper) – Green
	GND	Ground – Brown



aircom Pulse ATEX module includes a lithium battery. Do not incinerate, do not try to damage or to disassemble the module, do not expose to temperatures beyond the specified temperature range. At the end of its life cycle, this product must not be thrown away in the household waste but must be accordingly disposed.



CE DECLARATION OF CONFORMITY

MANAS ENERJİ YÖNETİMİ SANAYİ VE TİCARET A.Ş.

1. OSB Sincan / Ankara/ Türkiye

Declares that the product aircom Pulse ATEX is designed and manufactured in conformity with the following Directives:

2014/30/EU – EMC Directive	The product fulfils the requirement of the 2014/30/EU by the fact that it meets with the following standards: EN IEC 61000-6-2 and EN IEC 61000-6-3
2014/34/EU ATEX Directive	EU Type Examination Certificate No: IEP 24 ATEX 1482U Ⓔ II 1G Ex ia, ma IIC T4 Ga The product meets the following standards: EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-18: 2015. The module is supervised by: IEP Uluslararası Enerji Petrol Gözetim Sertifikasyon ve Teknik Hizmetler Organizasyonu Ticaret Limited Şirketi (2284) 5746/1 Sok. No:9 K:2 Bornova-İzmir/Türkiye EC Certificate No: IEP 25 ATEX Q 1541
(2011/65/EU) RoHS Directive	Manas declares under Manas' own responsibility that aircom Pulse ATEX products complies with RoHS (2011/65/EU) requirements.
IP68 Dust and Water Protection	The product meets IP68 protection with following standards EN 60529:1991/A1:2000, A2:2013, AC:2016, A2:2013/AC:2019.
REACH	Declare under our own responsibility that the product Model A ircom Pulse Description A module that is digitalizing the consumption values on gas and water meters. does not contain substances on the SVHC Candidate List provided by ECHA in concentrations greater than 0.1% by weight per article. All Aircom Pulse product types in Aircom Pulse Product Family comply with this declaration.

Name/Surname: Özge İğrek Civelek

Position: Quality Assurance and Laboratory Manager

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commercial@compteur-energie.com

Dresser Utility Solutions GmbH

Hardeckstr. 2
76185 Karlsruhe
T: +49 (0)721 / 5981 - 0
info.karlsruhe@dresserutility.com



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Manas Enerji Yönetimi Sanayi ve Ticaret A.Ş.

ASO. 1. Organize Sanayi Bölgesi Anadolu
Caddesi No:25 SINCAN/ANKARA/TÜRKİYE



Tel: +90 312 267 05 03
Mail: export@manas.com.tr