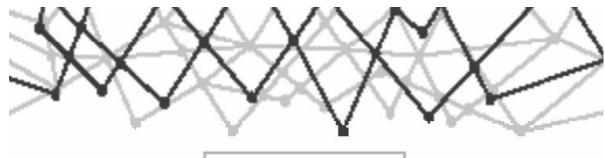


WATTECO 50-70-150 Pulse Counting and Analog Measurements in AtEx 1 Sensitive Area User Guide

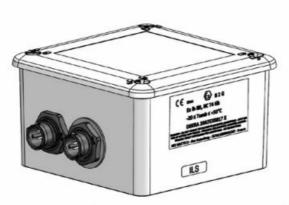
Home » WATTECO » WATTECO 50-70-150 Pulse Counting and Analog Measurements in AtEx 1 Sensitive Area User Guide [™]

WATTECO 50-70-150 Pulse Counting and Analog Measurements in ${\tt AtEx~1~Sensitive~Area~User~Guide}$











Toran'O Atex zone 1

Pulse sens'O Atex zone 1

50-70-124 50-70-150 50-70-229 50-70-123 50-70-152 50-70-228 3-70-046-005

Contents

- 1 1 Recommendations for use
- 2 2 Start
- 3 3 Connectors
- 4 4 Marking
- 5 5 Setting up
- 6 6 Radio propagation
- 7 7 Characteristics
- 8 Documents / Resources
 - 8.1 References

1 Recommendations for use

The use of accessories:

Installation, maintenance and use must only be carried out by personnel who are competent in the use of electrical equipment in explosive atmospheres as defined in EN 60079-14.

Any repair or modification is strictly prohibited without the written permission of Watteco.

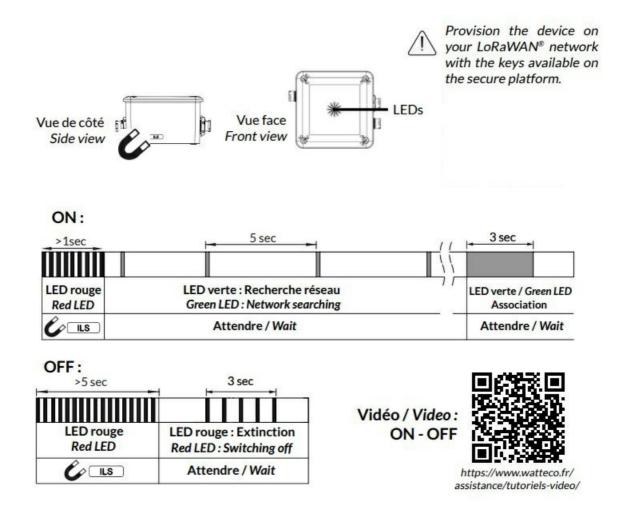
Risk of electrostatic discharge: The user must implement any action to control the risks of electrostatic discharge, especially by cleaning the product only with a damp cloth.

USE ONLY SAFT TYPE LS17500 BATTERIES.

Only the use of accessories in accordance with the intrinsic safety parameters is permitted (see on pages 3-4)

FOR PRODUCTS WITH EXTERNAL ANTENNAS: USE ONLY PASSIVE 868MHZ ANTENNAS WITH 50 OHM IMPEDANCE, MAXIMUM PEAK GAIN OF +4DBI, NO EXPOSED BARE WIRE, MOULDED OR PACKAGED IN A POLYMER CASE.

2 Start

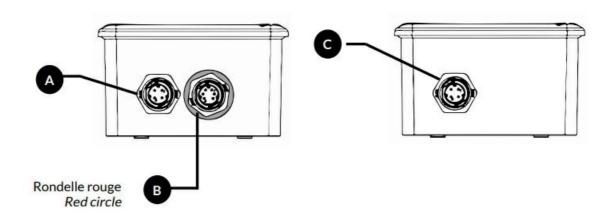


https://www.watteco.fr/assistance/tutoriels-video/

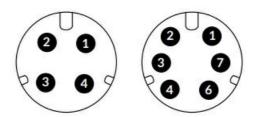
3 Connectors

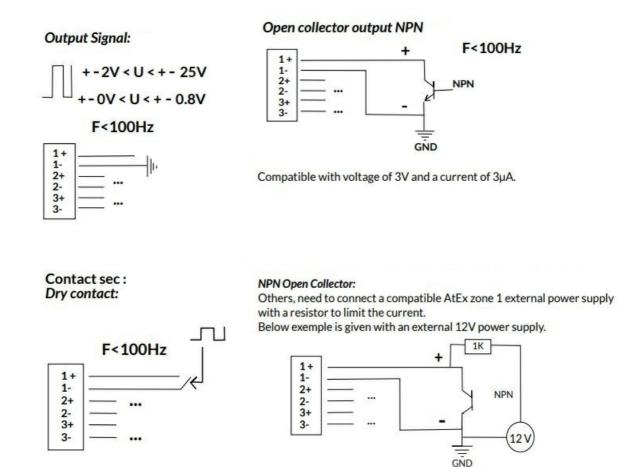
	Connecteur A: 4 points Connector A: 4 points		Connecteur B : Rondelle rouge : 6 points Connector B: Red circle: 6 points		Connecteur C : 6 points Connector C: 6 points	
	Connecteur Connector	Paramètres SI IS parameters	Connecteur Connector	Paramètres SI IS parameters	Connector Connector	Paramètres SI IS parameters
	4-20 mA		0-5V		50	
Toran'O Atex Zone 1 [50-70-124] IP55 [50-70-150] IP68 [50-70-229] IP55, Antenne externe / External antenna	P1:OUT - V+ [~14Vdc@20mA] P2:GND P3:IN-Measure P4:NC	Uo = 18,9V Io = 91mA Po = 430 mW Co = 1,6µF [IIB] Co = 262nF [IIC] Lo = 17mH [IIB] Lo = 4mH [IIC]	P1: OUT - V+ [~5,5Vdc@5mA] P2: GND P3: IN-Measure 1 P4: GND P6: IN-Measure 2 P7: GND	Uo = 6,51V Io = 67mA Po = 108 mW Co = 500μF[IIB], Co = 22μF[IIC] Lo = 33mH [IIB], Lo = 8mH [IIC]	P1: INPUT 1 P2: GND P3: INPUT 2 P4: GND P6: INPUT 3 P7: GND	Uo = 6,33V Io = 33μA Po = 23μW Co = 650μF(IIB), Co = 28μF(IIC) Lo = 1H (IIB), Lo = 1H (IIC) Ui - 25V Ii = 450mA Ci = 3,3nF Li ~ 0
Pulse Sens'O Atex zone 1 [50-70-123] IP55 [50-70-152] IP68 [50-70-228] IP55, Antenne externe / external antenna					P1: INPUT 1 P2: GND P3: INPUT 2 P4: GND P6: INPUT 3 P7: GND	Uo = 6,33V Io = 33µA Po = 23µW Co = 650µF[IIB], Co = 28µF[IIC] Lo = 1H [IIB], Lo = 1H [IIC] Ui = 25V Ii = 450mA Ci = 3,3nF Li~0

A, B, C refers to the connectors in the table on the previous page



The connectivity of the subbases is defined by:





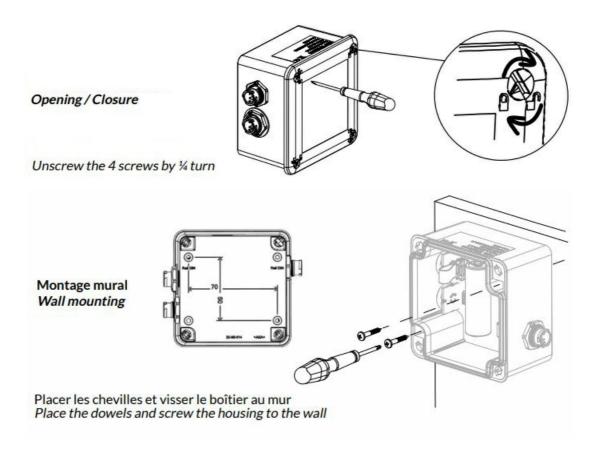
4 Marking

The Toran'O / Pulse Sens'O sensors are certified according to the harmonised standards EN60079-0 ed. 6 and EN60079-11 ed.6 (EU Type Examination Certificate DEKRA 20ATEX0017 X)



WARNING – DO NOT CHANGE THE BATTERY IN EXPLOSIVE ATMOSPHERE – ONLY USE TYPE OF BATTERY SAFT LS17500 – POTENTIAL ELECTROSTATIC CHARGING HAZARD – INSTRINSIC SAFETY PARAMETERS FOR CONNECTORS – SEE INSTRUCTIONS WATTECO – 165 RUE MONTAGNE DU SALUT 56600 LANESTER – FRANCE

5 Setting up



6 Radio propagation



For the sensor communicates correctly, the number of obstacles should be limited to avoid excessive radio attenuation.

7 Characteristics

Référence / Reference	50-70-124	50-70-150	50-70-229	50-70-123	50-70-152	50-70-228	
Classe / Class	А			А			
Niveau de puissance / Power Level	+14 dBm			+14 dBm			
Mesures / Measures :	Input S0 4- 20mA / 0-5V			Input SO			
Antenne / Antenna	Interne Internal		Externe External	Interne Internal		Externe External	
Matériaux du boîtier / Casing materials	ASA/PC			ASA / PC			
Indice de protection / IP rating	IP55	IP68	IP55	IP55	IP68	IP55	



SITE SUPPORT

https://support.watteco.com/



CERTIFICATIONS

https://www.watteco.fr/assistance/centrede-telechargement/

Watteco represented by JC LE BLEIS, declares that the radio equipment type 50-70-123 / 50-70-152 / 50-70-124 / 50-70-150 / 50-70-229 / 50-70-228 is in conformity with Directive 2014/53/EU (RED) and UKCA. The full text of the EU and UKCA Declaration of Conformity is available at the following web address: https://www.watteco.com/assistance/download-center/



IoT device manufacturer

Thanks for choosing WATTECO devices

Documents / Resources



WATTECO 50-70-150 Pulse Counting and Analog Measurements in AtEx 1 Sensitive Area

[pdf] User Guide

50-70-150 Pulse Counting and Analog Measurements in AtEx 1 Sensitive Area, 50-70-150, Pul se Counting and Analog Measurements in AtEx 1 Sensitive Area, Counting and Analog Measurements in AtEx 1 Sensitive Area, Analog Measurements in AtEx 1 Sensitive Area, Measurements in AtEx 1 Sensitive Area, AtEx 1 Sensitive Area, Area

References

- Concepteur et fabricant de capteurs transmetteurs radio connectés IoT WATTECO
- User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.