

FLUENTA

EU Declaration of Conformity

Manufacturer:	Fluenta AS
Address:	Haraldsgate 90 N-5501 Haugesund Norway
Operations Office:	ul. Leborska 3B 80-386 Gdansk Poland
Phone:	+47 21 02 19 27

Manufacturer hereby declares that:

Product	TFS-HT
Type	Ultrasonic Sensor
	II 1 G Ex ia IIC T* Ga
	-40°C ≤ Ta ≤ 60°C (Ambient Temperature)
T2:	-110 °C ≤ Tp ≤ +200°C (Process Temperature)
T3:	-110 °C ≤ Tp ≤ +180°C (Process Temperature)
T4:	-110 °C ≤ Tp ≤ +120°C (Process Temperature)
T5:	-110 °C ≤ Tp ≤ +85°C (Process Temperature)
T6:	-110 °C ≤ Tp ≤ +60°C (Process Temperature)

- is produced in conformity with the following directives and standards:
 - A) ATEX Directive 2014/34/EU** (18ATEX12865X)
Equipment and protective systems intended for use in potentially explosive areas
 - B) ISO/IEC 80079-34** (PRE 18.0045X)
Explosive atmospheres - Part 34: Application of quality systems for equipment manufacture
 - C) INMETRO – Portaria 115** (DNV 18.0156 X)
Requirements for Conformity Assessment of Electrical and Electronic Equipment for Explosive Atmospheres
 - D) IECEx Scheme** (PRE 18.0045X)
 - E) EN ISO 9001:2015** (Nemko 900998)
Quality management system requirements
- has been tested with a FGM 160 field computer and is compliant with the following:
 - A) Directive 89/336/EEC, EN 61000-6-2:2019**
Part 6-2: Generic standards - Immunity for industrial environments
 - B) Directive 89/336/EEC, EN 61000-6-4:2019**
Part 6-4: Generic standards – Emission standard for industrial environments

- the following test standards were applied for the EMC emission and immunity tests:

Standard	Measurement		Result (Pass/Fail)
EN 55022 Class B	Radiated Disturbance 30 - 1000 MHz, Enclosure Port		Pass
EN 55022 Class B	Conducted Disturbance 0.15 – 30 MHz, Mains Port		NA
EN 55022 Class B	Conducted Disturbance 0.15 – 30 MHz, Telecomm. Port		NA
EN 61000-4-3	Radiated, radio-frequency electromagnetic field – Immunity test		Pass
EN 61000-4-6	RF common mode, induced by radio-frequency fields – Immunity test		Pass
EN 61000-4-2	Electrostatic discharge (ESD) immunity test		Pass
EN 61000-4-4	Electrical fast transient/burst (EFT/B) immunity test	AC Signal	Pass Pass
EN 61000-4-5	Surge immunity tests	AC Signal	Pass Pass
EN 61000-4-11	Voltage dips, short interrupts and voltage variations immunity tests		Pass

- compliance with the essential health and safety requirements has been assured by compliance with:

EN 60079-0:2018 (IEC 60079-0 ed.7)	Electrical apparatus for potentially explosive atmospheres – General requirements
EN 60079-11:2023 (IEC 60079-11 ed.7)	Electrical apparatus for potentially explosive atmospheres – Intrinsic safe protection
- ATEX EU-type examination certificate proves this (related to design, examination and tests in accordance with 2014/34/EU).

Respective test reports and issued certificates are available upon request at Fluenta AS.

Position: Quality Manager
 Name: Graham Davies
 Company: Fluenta AS

Date: 12 May 2023

Signed:

