

Document number: 75.122.001

Document title: Fluenta TFS-55 and TFS-55 Bias-90
Ultrasonic Sensors

EU Declaration of Conformity

Scope: Different standards, see document

Additional Information (when applicable):

D	12-May-2023	Updated Inmetro directive reference	KO	PJ	NB	GD	GD
C	13-Jul-2021	Added Bias-90	AK	NB	-	KO	NB
B	13-Aug-2020	Added cert no, updated standard revisions	MB	KO	NB	MB	NB
A	08-Jan-2020	Issued for Fluenta release	AK	NB	ST	KO	MB
Rev. index	Issue date	Reason for issue	Author	Review	Review	Review by QA	Approved
Replacement for:		n/a				Total pages: 3	
Fluenta source doc. (for translations):		n/a					



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:

Products **TFS-55 and TFS-55 Bias-90**

Type **Ultrasonic Sensor**

II 1 G Ex ia IIC T* Ga

-40°C ≤ Ta ≤ 60°C (Ambient 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 (18ATEX13228X)

Equipment and protective systems intended for use in potentially explosive areas

B) ISO/IEC 80079-34 (PRE 18.0062X)

Explosive atmospheres - Part 34: Application of quality systems for equipment manufacture

C) INMETRO – Portaria 115 (DNV 18.0183 X)

Requirements for Conformity Assessment of Electrical and Electronic Equipment for Explosive Atmospheres

D) IECEx Scheme (PRE 18.0062X)

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
EN 61000-4-5	Surge immunity tests	AC Signal 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 proofs 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:

