

Document number: 75.190.002

Document title: Fluenta FlarePhase Transducer

EU Declaration of Conformity

Scope: Different standards, see document

Additional Information (when applicable):

C	12-May-2023	Updated Inmetro directive reference	KO	PJ	NB	GD	GD
B	28-Feb-2022	Updated with FlarePhase variants	KO	NB	-	MB	MB
A	26-Oct-2020	Issued for Fluenta release	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	
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FLUENTA

EU Declaration of Conformity

Manufacturer:	Fluenta AS
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Operations Office:	ul. Leborska 3B 80-386 Gdansk Poland
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Manufacturer hereby declares that:

Product: **Ultrasonic Transducer**

Type: **FlarePhase 250**
FlarePhase 250 Bias-90
II 1G Ex ia IIC T* Ga
Tp: -200°C to +260°C
Ta: -40°C to +60°C

Type: **FlarePhase Cryo**
FlarePhase Cryo Bias-90
II 1G Ex ia IIC T* Ga
Tp: -200°C to +260°C
Ta: -40°C to +60°C

Type: **FlarePhase 350**
FlarePhase 350 Bias-90
II 1G Ex ia IIC T* Ga
Tp: -40°C to +450°C
Ta: -40°C to +60°C

- is produced in conformity with the following directives and standards:
 - A) ATEX Directive 2014/34/EU** (ExVeritas 20ATEX0699 X)
Equipment and protective systems intended for use in potentially explosive areas
 - B) ISO/IEC 80079-34**
Explosive atmospheres - Part 34: Application of quality systems for equipment manufacture
 - C) IECEx Scheme** (IECEx EXV 20.0044X)
 - D) INMETRO Portaria 115** (CPEX 21.0030 X)
 - D) EN ISO 9001:2015**
Quality management system requirements

- has been tested with Fluenta FGM160, Fluenta FlareAmp and Fluenta FlareAmp Controller and is compliant^[1] 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	Description
EN61326-1:2013	Group 1, Class A equipment (immunity ^[1] and emissions)
EN55011:2009 (+A1)	Group 1, Class A equipment
EN 61000-3-2:2014	Limits for harmonic current emissions
EN 61000-3-3:2013	Limits for voltage changes, fluctuations and flicker
EN 61000-6-4:2007	Emission standard for industrial environments
EN 61000-6-2:2005	Immunity for industrial environments ^[1]

^[1]The system only achieved a pass criterion “B” for test method EN61000-4-3 (10V/m). Power supply to the system was briefly interrupted in the 303-310MHz band, but automatically re-started when the interfering field was removed. This behavior is considered to be acceptable because the integrity of the accumulated flow measurements is maintained.

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

CENELEC EN 60079-0:2018

(IEC 60079-0:2017 Edition: 7.0)

CENELEC EN 60079-11:2012

(IEC 60079-11:2011 Edition: 6.0)

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:

