



Certificate of Compliance

Certificate:	1767247	Master Contract:	160686
Project:	80255331	Date Issued:	2025-07-24
Issued to:	Endress+Hauser Flowtec AG Kagenstrasse 7 Reinach, Basel-Country 4153 Switzerland	Issued by:	<i>Anil Sodhi</i> Anil Sodhi, P. Eng.
Attention: Patrick Präger			

The products listed below are eligible to bear the CSA Mark shown



PRODUCTS

Class 2258 03 PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations
Class 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

Ex d [ia] IIC:

Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III:

- PROSONIC FLOW 92abb-cdefgPiklmno Flowmeters consisting of a Transmitter/Sensor (Compact Version) or a Transmitter and remotely mounted Sensor (Remote Version). Supply rated 35Vdc, 50mA. Explosion-proof with Intrinsically Safe circuits (Ex ia IIC) to sensors per Control Drawing FES0104. Type 4X Enclosure.
Seal Not Required. Maximum process pressure (MWP) 1450psi (100bar). Dual Seal Device.

Notes:

1. "a, b, c, d, e, f, g, i, k, l, m, n & o" in the Model Number may be any number or letter representing specific options.
2. Entity Parameters and Temperature Codes are located on Control Drawing FES0104.



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3. The interior of the process tube is suitable for Zone 0.
4. The remote version sensor is also rated Type 6P.

Ex ia IIC T4...T1 Gb:

Ex ia [ia Ga] IIC T4...T1 Gb:

Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III:

• PROSONIC FLOW 92abb-cdefgNiklmno Flowmeters consisting of a Transmitter/Sensor (Compact Version) or a Transmitter and remotely mounted Sensor (Remote Version). Supply rated 30Vdc, 50mA. Intrinsically Safe and provides Intrinsically Safe circuits (Ex ia IIC) to sensors per Control Drawing FES0102. Type 4X Enclosure. Maximum process pressure (MWP) 1450psi (100bar). Dual Seal Device.

Notes:

1. "a, b, c, d, e, f, g, i, k, l, m, n & o" in the Model Number may be any number or letter representing specific options.
2. Entity Parameters and Temperature Codes are located on Control Drawing FES0102.
3. The remote version sensor is also rated Type 6P.

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

Ex nA[nL] IIC:

Ex nL IIC:

Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III:

• PROSONIC FLOW 92abb-cdefgNiklmno Flowmeters consisting of a Transmitter/Sensor (Compact Version) or a Transmitter and remotely mounted Sensor (Remote Version). Supply rated 35Vdc, 50mA. The Transmitters are suitable for use in Division 2/ Zone 2 (Ex nA[nL] IIC or Ex nL IIC depending on version) with Non-Incendive Sensor circuits (Ex nL IIC) per Control Drawing FES0102. Type 4X Enclosure. Maximum process pressure (MWP) 1450psi (100bar). Dual Seal Device.

Notes:

1. "a, b, c, d, e, f, g, i, k, l, m, n & o" in the Model Number may be any number or letter representing specific options.
2. Entity Parameters and Temperature Codes are located on Control Drawing FES0102.
3. The remote version sensor is also rated Type 6P.

APPLICABLE REQUIREMENTS

CSA C22.2 NO. 25-1966 - Enclosures for Use in Class II, Division 1, Groups E, F and G Hazardous Locations

CSA C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations Industrial Products - General Instruction No 1-2

CSA C22.2 No. 94-M91 - Fourth Edition - Special Purpose Enclosures Industrial Products

CSA C22.2 NO. 213-M1987 - Non-incendive electrical equipment for use in class I, division 2 hazardous locations

CAN/CSA C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use -



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Part 1: General Requirements

CAN/CSA-E60079-0-02 - Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements; CEI/IEC 60079-0: 1998 + A1: 2000

CAN/CSA-E60079-1-02 - Second Edition - Electrical Apparatus for Explosive Gas Atmospheres - Part 1: Flameproof Enclosures "d" ; IEC 60079-1: 2001

CAN/CSA-E60079-15-02 (Second Edition) - Electrical Apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n"

CAN/CSA-C22.2 No. 60079-0:19 (R2024) - Explosive atmospheres — Part 0: Equipment — General requirements

CAN/CSA-C22.2 No. 60079-11:14 (R2023) - Explosive atmospheres — Part 11: Equipment protection by intrinsic safety “i”

ANSI/ISA 12.27.01:2003 - Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids

Standards Notes

Standard CAN/CSA-E60079-0-02 is used in-conjunction with other Zone standards of previous edition



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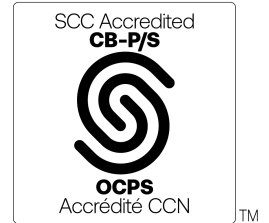
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Notes:

Products certified under Class(es) C225803, C225804 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca



Class I Division 1 Groups ABCD, Class II Division 1 Groups EFG and Class III or
Class I, Zone 0, Group IIC or
Class I, Division 2 Groups ABCD or Class I Zone 2 Group IIC

A schematic diagram of a pressure transmitter. It features a circular pressure tap on the left side, indicated by an arrow pointing left. The transmitter is mounted on a horizontal pipe, with flanges on either side.

	Max. fluid temperature*)				
	T6 2)	T5 2)	T4	T3	T2 - T1
Ta = 40°C	80°C	95°C	130°C	195°C	200°C
Ta = 55°C	—	95°C	130°C	195°C	200°C
Ta = 60°C	—	—	130°C	195°C	200°C

Minimum ambient temperature: -40°C
Minimum fluid temperature: -40°C

Diagram 3) illustrates the connection of the pressure sensor cable. The cable, which has a multi-pin connector on one end and a smaller connector on the other, is shown being plugged into the side of the pressure sensor unit. An arrow points to the connection point, and the label "3)" is placed below the arrow.

	Max. fluid temperature*)				
	T6 2)	T5 2)	T4	T3	T2 - T1
Ta = 60°C	80°C	95°C	130°C	195°C	200°C
Ta = 80°C	—	95°C	130°C	195°C	200°C

Minimum ambient temperature: -40°C
Minimum fluid temperature: -40°C

Drawing-No.	Model Codes:
FES0102	Prosonic Flow 92***_*****N*****
FES0102-0001	Prosonic Flow 92***_*****N*****A and Prosonic Flow 92***_*****N*****W
FES0102-0002, FES0102-0003, FES0102-0004, FES0102-0005	Prosonic Flow 92***_*****N*****H and Prosonic Flow 92***_*****N*****K

- 2) Temperature class T6 and T5 is not allowed for versions of Profibus PA and Fieldbus Foundation
(not for Prosonic Flow 92***_*****N*****H and
Prosonic Flow 92***_*****N*****K)
- 3) Max. cable length for intrinsically safe installation 100m for using cable parameters
 $L_{\text{Cable}} = 1\text{mH/km}$ and $C_{\text{Cable}} = 1\mu\text{F/km}$
- 4) Caution: Use supply wires suitable for 10°C above maximum ambient temperature
- 5) Caution: Surface temperature of transmitter enclosure can exceed 70°C depending on ambient temperature or medium temperature
- 6) Dust tight seals must be used at conduit entries for Class II and III installation
- 7) Fieldbus cable connectors are suitable for Class I, Div. 2, Groups A,B,C,D if non-incendive circuits are connected (see FES0102-0005)
- 8) Compact version and remote version are intended for use in Zone 1 or Zone 0.
When installed in Zone 1 the interior of measuring tube is permissible for use in Zone 0
- 9) Prosonic Flow 92 transmitter is intended for installation to Service Interface FXA 193 or FXA 291
- 10) Prosonic Flow 92 is a Dual Seal rated device if the optional rupture disk is present.

	T6 2)	T5 2)	T4 - T1
Ta =	40°C	55°C	80°C

Minimum ambient temperature: -40°C

Änderungen:	A	10.05.06/Bn	F		Alle gesetzlichen Urheberrechte vorbehalten. Diese Zeichnung darf ohne unsere Genehmigung weder vervielfältigt werden noch dritten Personen und Konkurrenzfirmen zugänglich gemacht werden.	Ersatz für: Ersteller: FES/Bn File: FES0102D.doc ID 1158			
	B	15.09.08/BDA	G						
	C	18.05.10/PAM	H						
	D	08.08.2012/BIF	J						
	E		K						
CSA CONTROL DRAWING PROSONIC FLOW 92 (IS and NI) Compact Version, Remote version						Massstab	Gezeichnet	14.10.05	Bn
							Geprüft		
							Ex-geprüft	08.08.12	BIF
							Gesehen		
Endress+Hauser  Endress+Hauser Flowtec AG, CH-4153 Reinach						FES0102 D			