



# Certificate of Compliance

<b>Certificate:</b>	70070273	<b>Master Contract:</b>	215069
<b>Project:</b>	80250252	<b>Date Issued:</b>	2025-06-27
<b>Issued to:</b>	<b>Endress+Hauser SICK GmbH+Co. KG Bergener Ring 27 Ottendorf-Okrilla, Saxony 01458 Germany</b>	<b>Issued by:</b>	<i>Rahul Arekar</i> Rahul Arekar
	<b>Attention:</b> Sven-Matthias Scheibe		

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



## **PRODUCTS**

Class 2258 02 PROCESS CONTROL EQUIPMENT - For Hazardous Locations

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

Class 2258 82 PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

Class 2258 84 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups B, C, D / C, D / D; Ex db ia [ia Ga] IIC / IIB / IIA T4 Gb;

**Ultrasonic Gas Flowmeter FLOWSIC600-XT**



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Model(s)
F6a-bbccdd-eeff-gggg

Ultrasonic Gas Flowmeter FLOWSIC600-XT; Model: F6a-bbccdd-eeff-gggg (where ee = CD, BD or AD); Electrical Rating: 12 to 24 Vdc, 400 mA max, SELV/PELV/Class 2; Ambient Temperature: -40 °C to +70 °C; Maximum Working Pressure: 16 MPa (2,321 PSI); Enclosure Rating: Type 4, IP66

Notes:

1. Alphanumeric characters a to dd are not critical to certification. The type code may be followed by additional alphanumeric characters indicating additional features which are not critical to the certification.

2. Where ff= I/O Configuration / Data Interfaces

- 1A – 3\*RS485 / 2\*FO / 2\*DO
- 1B – 3\*RS485 / 2\*FO / 2\*DO / 1\*AO
- 1C – 2\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*HART (Slave)
- 1D – 2\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*Encoder
- 1E – 2\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*Ethernet
- 1J – 2\*RS485 / 2\*FO / 2\*DO / 1\*Encoder
- 2A – 1\*HART-pT / 2\*RS485 / 2\*FO / 2\*DO
- 2B – 1\*HART-pT / 2\*RS485 / 2\*FO / 2\*DO / 1\*AO
- 2C – 1\*HART-pT / 1\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*HART (Slave)
- 2D – 1\*HART-pT / 1\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*Encoder
- 2E – 1\*HART-pT / 1\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*Ethernet
- XX – Custom configuration

3. Where gggg = Ultrasonic Transducer (The general construction of the transducers is equal, and the same materials are used. Ex-relevant requirements are covered by the specific conditions of use.)

4. The above model is permanently connected, intended for continuous operation in extended environmental conditions as specified. Installation / Overvoltage Category I, Pollution Degree 2.

Conditions of Acceptability:

1. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth. This is particularly important when installed in a zone 0 location. (See clause 7.4.2 of CSA/UL 60079-0)
2. The enclosure may be made low copper aluminium alloy. In rare cases, ignition sources due to impact and friction sparks could occur. The user must ensure that the enclosure is suitably protected against danger from impact or friction, particularly when installed in a zone 0 location. (See clause 8.3 of CSA/UL 60079-0)
3. The ultrasonic sensors are manufactured from titanium. The pipeline adaptor and part of the electronic enclosure may be made from aluminium. In rare cases, ignition sources due to impact and friction sparks could occur. The user must ensure that the ultrasonic sensors are suitably protected against danger from impact or friction. (See clause 8.3 of CSA/UL 60079-0)



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4. The maximum piezo-electric energy released by impact on the ultrasonic sensors exceeds the limits specified in Clause 10.7 of CSA/UL 60079-11:2011. The user must ensure that the ultrasonic sensors are suitably protected against danger from impact.
5. The apparatus is not capable of withstanding the 500 V insulation test required by clause 6.3.13 of CSA/UL 60079-11:2011 (Except at the optically isolated inputs/outputs). See the installation instructions regarding the correct electrical installation.
6. Contact the manufacturer if dimensional information of flameproof joints is needed. (See clause 5.1 of CSA/UL 60079-1)
7. The replaceable backup battery pack and connecting circuit have been assessed for intrinsic safety in accordance with CSA/UL 60079-11:2011, and is acceptable for use in the non-intrinsically safe versions of the equipment.
8. When 3/4 NPT entries are provided, entry devices shall be installed with five fully engaged threads, tightened with a minimum torque of 90 Nm (800 in-lbs).

Class I, Division 1, Groups B, C, D / C, D / D; Class I, Zone 1, AEx db ia op is [ia Ga] IIC / IIB / IIA T4 Gb;

Model(s)	Voltage (VDC)	Current (mA max)	Class	Ambient Temp	Max. Working Pressure	Enclosure	Ingress Protection Code
F6a-bbccdd-eeff-gggg	12 to 24	400	SELV/PELV/Class 2	-40 °C to +70 °C	16 MPa (2,321 PSI)	Type 4	IP66

Model: F6a-bbccdd-eeff-gggg (where ee = CD, BD or AD)

Notes:

1. Alphanumeric characters a to dd are not critical to certification. The type code may be followed by additional alphanumeric characters indicating additional features which are not critical to the certification.

2. Where ff = I/O Configuration / Data Interfaces

- 1A – 3\*RS485 / 2\*FO / 2\*DO
- 1B – 3\*RS485 / 2\*FO / 2\*DO / 1\*AO
- 1C – 2\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*HART (Slave)
- 1D – 2\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*Encoder
- 1E – 2\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*Ethernet
- 1J – 2\*RS485 / 2\*FO / 2\*DO / 1\*Encoder
- 2A – 1\*HART-pT / 2\*RS485 / 2\*FO / 2\*DO
- 2B – 1\*HART-pT / 2\*RS485 / 2\*FO / 2\*DO / 1\*AO
- 2C – 1\*HART-pT / 1\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*HART (Slave)
- 2D – 1\*HART-pT / 1\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*Encoder
- 2E – 1\*HART-pT / 1\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*Ethernet
- XX – Custom configuration

3. Where gggg = Ultrasonic Transducer (The general construction of the transducers is equal, and the same materials are used. Ex-relevant requirements are covered by the specific conditions of use.)

4. The above model is permanently connected, intended for continuous operation in extended environmental conditions as specified. Installation / Overvoltage Category I, Pollution Degree 2.

Conditions of Acceptability:



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1. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth. This is particularly important when installed in a zone 0 location. (See clause 7.4.2 of CSA/UL 60079-0)
2. The enclosure may be made low copper aluminium alloy. In rare cases, ignition sources due to impact and friction sparks could occur. The user must ensure that the enclosure is suitably protected against danger from impact or friction, particularly when installed in a zone 0 location. (See clause 8.3 of CSA/UL 60079-0)
3. The ultrasonic sensors are manufactured from titanium. The pipeline adaptor and part of the electronic enclosure may be made from aluminium. In rare cases, ignition sources due to impact and friction sparks could occur. The user must ensure that the ultrasonic sensors are suitably protected against danger from impact or friction. (See clause 8.3 of CSA/UL 60079-0)
4. The maximum piezo-electric energy released by impact on the ultrasonic sensors exceeds the limits specified in Clause 10.7 of CSA/UL 60079-11:2011. The user must ensure that the ultrasonic sensors are suitably protected against danger from impact.
5. The apparatus is not capable of withstanding the 500 V insulation test required by clause 6.3.13 of CSA/UL 60079-11:2011 (Except at the optically isolated inputs/outputs). See the installation instructions regarding the correct electrical installation.
6. Contact the manufacturer if dimensional information of flameproof joints is needed. (See clause 5.1 of CSA/UL 60079-1)
7. The replaceable backup battery pack and connecting circuit have been assessed for intrinsic safety in accordance with CSA/UL 60079-11:2011, and is acceptable for use in the non-intrinsically safe versions of the equipment.
8. When 3/4 NPT entries are provided, entry devices shall be installed with five fully engaged threads, tightened with a minimum torque of 90 Nm (800 in-lbs).

Class I, Division 1, Groups A, B, C, D / C, D / D; T4 Class I, Zone 0, AEx ia op is IIC / IIB / IIA T4 Ga

**Ultrasonic Gas Flowmeter FLOWSIC600-XT; Model: F6a-bbccdd-eeff-gggg (where ee = CI, BI or AI, see also notes 2 and 3 below);**

Model(s)
F6a-bbccdd-eeff-gggg

Electrical Rating: 12 to 24 Vdc, 400 mA max, SELV/PELV/Class 2; Ambient Temperature: -40 °C to +70 °C; Maximum Working Pressure: 16 MPa (2,321 PSI); Enclosure Rating: Type 4, IP66

Intrinsically safe when installed per drawing 9236581 with entity parameters:

	Ui (V)	Ii (mA)	Pi (W)	Ci (µF)	Li (mH)
Power Input	20	667	1.65	--	0.005
FO.0 (optional)	20	--	0.717	--	--



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FO.1 (optional)	20	--	0.717	--	--
DO.2 (optional)	20	--	0.717	--	--
DO.3 (optional)	20	--	0.717	--	--
RS485 (optional)	10.5	--	0.717	1.21	0.02
ENCODER (optional)	18.2	--	1.0	--	--
HART-PT (optional)	26.6	667	1.0	0.0012	--
AO (optional)	26.6	667	1.0	0.0012	0.01
AO + HART (optional)	26.6	667	1.0	0.0012	0.01

Notes:

1. Alphanumeric characters a to dd are not critical to certification. The type code may be followed by additional alphanumeric characters indicating additional features which are not critical to the certification.

2. Where ff= I/O Configuration / Data Interfaces

1A – 3\*RS485 / 2\*FO / 2\*DO

1B – 2\*RS485 / 2\*FO / 2\*DO / 1\*AO

1C – 1\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*HART (Slave)

1D – 1\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*Encoder

1J – 2\*RS485 / 2\*FO / 2\*DO / 1\*Encoder

2A – 1\*HART-pT / 2\*RS485 / 2\*FO / 2\*DO

2B – 1\*HART-pT / 1\*RS485 / 2\*FO / 2\*DO / 1\*AO

2C – 1\*HART-pT / 2\*FO / 2\*DO / 1\*AO / 1\*HART (Slave)



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2D – 1\*HART-pT / 2\*FO / 2\*DO / 1\*AO / 1\*Encoder

3A – 1\*pT / 2\*RS485 / 2\*FO / 2\*DO

XX – Custom configuration

3. Where gggg = Ultrasonic Transducer (The general construction of the transducers is equal, and the same materials are used. Ex-relevant requirements are covered by the specific conditions of use.)

4. The above model is permanently connected, intended for continuous operation in extended environmental conditions as specified. Installation / Overvoltage Category I, Pollution Degree 2.

Conditions of Acceptability:

1. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth. This is particularly important when installed in a zone 0 location. (See clause 7.4.2 of CSA/UL 60079-0)
2. The enclosure may be made from low copper aluminium alloy. In rare cases, ignition sources due to impact and friction sparks could occur. The user must ensure that the enclosure is suitably protected against danger from impact or friction, particularly when installed in a zone 0 location. (See clause 8.3 of CSA/UL 60079-0)
3. The ultrasonic sensors are manufactured from titanium. The pipeline adaptor and part of the electronic enclosure may be made from aluminium. In rare cases, ignition sources due to impact and friction sparks could occur. The user must ensure that the ultrasonic sensors are suitably protected against danger from impact or friction. (See clause 8.3 of CSA/UL 60079-0)
4. The maximum piezo-electric energy released by impact on the ultrasonic sensors exceeds the limit for Gas Group IIC specified in Clause 10.7 of CSA/UL 60079-11:2011. The user must ensure that the ultrasonic sensors are suitably protected against danger from impact.
5. The apparatus is not capable of withstanding the 500 V insulation test required by clause 6.3.13 of CSA/UL 60079-11:2011 (Except at the optically isolated inputs/outputs). See the installation instructions regarding the correct electrical installation.
6. The equipment contains a shunt zener diode barrier, which requires supplementary connection to grounding electrode in accordance with NFPA 70 article 504.50.

Class I, Division 1, Groups A, B, C, D / C, D / D; T4

Ex ia IIC / IIB / IIA T4 Ga

Model(s)
F6a-bbccdd-eeff-gggg

Electrical Rating: 12 to 24 Vdc, 400 mA max, SELV/PELV/Class 2; Ambient Temperature: -40 °C to +70 °C; Maximum Working Pressure: 16 MPa (2,321 PSI); Enclosure Rating: Type 4, IP66

Intrinsically safe when installed per drawing 9236581 with entity parameters:



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	Ui (V)	Ii (mA)	Pi (W)	Ci (μF)	Li (mH)
Power Input	20	667	1.65	--	0.005
FO.0 (optional)	20	--	0.717	--	--
FO.1 (optional)	20	--	0.717	--	--
DO.2 (optional)	20	--	0.717	--	--
DO.3 (optional)	20	--	0.717	--	--
RS485 (optional)	10.5	--	0.717	1.21	0.02
ENCODER (optional)	18.2	--	1.0	--	--
HART-PT (optional)	26.6	667	1.0	0.0012	--
AO (optional)	26.6	667	1.0	0.0012	0.01
AO + HART (optional)	26.6	667	1.0	0.0012	0.01

Notes:

1. Alphanumeric characters a to dd are not critical to certification. The type code may be followed by additional alphanumeric characters indicating additional features which are not critical to the certification.
2. Where ff= I/O Configuration / Data Interfaces

1A – 3\*RS485 / 2\*FO / 2\*DO

1B – 2\*RS485 / 2\*FO / 2\*DO / 1\*AO

1C – 1\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*HART (Slave)

1D – 1\*RS485 / 2\*FO / 2\*DO / 1\*AO / 1\*Encoder



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1J – 2\*RS485 / 2\*FO / 2\*DO / 1\*Encoder  
2A – 1\*HART-pT / 2\*RS485 / 2\*FO / 2\*DO  
2B – 1\*HART-pT / 1\*RS485 / 2\*FO / 2\*DO / 1\*AO  
2C – 1\*HART-pT / 2\*FO / 2\*DO / 1\*AO / 1\*HART (Slave)  
2D – 1\*HART-pT / 2\*FO / 2\*DO / 1\*AO / 1\*Encoder  
3A – 1\*pT / 2\*RS485 / 2\*FO / 2\*DO  
XX – Custom configuration

3. Where gggg = Ultrasonic Transducer (The general construction of the transducers is equal, and the same materials are used. Ex-relevant requirements are covered by the specific conditions of use.)

4. The above model is permanently connected, intended for continuous operation in extended environmental conditions as specified. Installation / Overvoltage Category I, Pollution Degree 2.

#### Conditions of Acceptability:

1. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth. This is particularly important when installed in a zone 0 location. (See clause 7.4.2 of CSA/UL 60079-0)
2. The enclosure may be made from low copper aluminium alloy. In rare cases, ignition sources due to impact and friction sparks could occur. The user must ensure that the enclosure is suitably protected against danger from impact or friction, particularly when installed in a zone 0 location. (See clause 8.3 of CSA/UL 60079-0)
3. The ultrasonic sensors are manufactured from titanium. The pipeline adaptor and part of the electronic enclosure may be made from aluminium. In rare cases, ignition sources due to impact and friction sparks could occur. The user must ensure that the ultrasonic sensors are suitably protected against danger from impact or friction. (See clause 8.3 of CSA/UL 60079-0)
4. The maximum piezo-electric energy released by impact on the ultrasonic sensors exceeds the limits specified in Clause 10.7 of CSA/UL 60079-11:2011. The user must ensure that the ultrasonic sensors are suitably protected against danger from impact.
5. The apparatus is not capable of withstanding the 500 V insulation test required by clause 6.3.13 of CSA/UL 60079-11:2011 (Except at the optically isolated inputs/outputs). See the installation instructions regarding the correct electrical installation.
6. The equipment contains a shunt zener diode barrier, which requires supplementary connection to grounding electrode in accordance with NFPA 70 article 504.50.

#### **APPLICABLE REQUIREMENTS**

CSA C22.2 NO. 30:20 - Explosion-proof equipment - Fourth Edition; Errata: July 2020; Update No. 1: March 2023

CSA C22.2 NO. 94.1:24 - Enclosures for electrical equipment, non-environmental considerations - Third Edition

CSA C22.2 No. 94.2:15 - Second Edition - Enclosures for electrical equipment, environmental considerations

CSA C22.2 No. 60079-0:19 - Fourth Edition - Explosive atmospheres — Part 0: Equipment — General requirements

CSA C22.2 No. 60079-1:16 - Third Edition - Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures “d”

CAN/CSA C22.2 No. 60079-11:14 - Second Edition - Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i”



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CAN/CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016, AMD1:2018 - Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements

FM 3600:2011 - Electrical Equipment for use in Hazardous (Classified) Locations – General Requirements

FM 3615 : 2006 - Explosionproof Electrical Equipment for Use in Class I, Division 1 Hazardous (Classified) Locations

UL 50E (Second Ed.) - UL 50E (Second Ed.) - UL STANDARD FOR SAFETY Enclosures for Electrical Equipment, Environmental Considerations

UL 913(Eighth Edition) - UL Standard for Safety Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations - Eighth Edition

ANSI/UL 60079-0 (Seventh Edition) - UL Standard for Explosive Atmospheres - Part 0: Equipment - General Requirements

ANSI/UL 60079-1-2020 Seventh Edition - Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures 'd'

ANSI/UL 60079-11 (Sixth Edition) - UL Standard for Safety Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "i"

ANSI/UL 60079-28:2017 - Second Edition - Including Revisions Through December 7, 2021 - UL Standard for Safety Explosive Atmospheres – Part 28: Protection of Equipment and Transmission Systems Using Optical Radiation

UL 61010-1 3rd ed (Rev. Jun 6, 2023) - UL Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements



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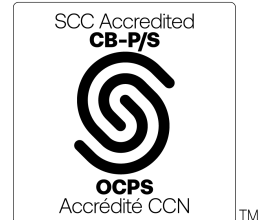
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Notes:

Products certified under Class(es) C225802, C225804, C225882, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## *Supplement to Certificate of Compliance*

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**Master Contract:** 215069

*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

<b>Project</b>	<b>Date</b>	<b>Description</b>
80250252	2025-06-27	<p>Update to Report 70070273 to cover the following.</p> <ol style="list-style-type: none"> <li>1) To change the manufacturer's name from SICK Engineering GmbH to Endress+Hauser SICK GmbH+Co. KG.</li> <li>2) Addition of new potting material- DOWSIL™ SE 1816 CV, intended for use at SPU PWB.</li> <li>3) Compliance with the Certification Notice - Hazardous Location Products No. 38 i.e. standard update from CSA C22.2 No. 30-M1986 (reaffirmed 2012) to CSA C22.2 No. 30:20.</li> <li>4) To address FIR findings (FC# 0000228960, dated April 15, 2025) i.e. update of drawing No. 1_100005037 from revision B to C and remove the drawing No. 1_100007294, Rev. A.</li> <li>5) Removal of alternative Line-Bushing critical component -QUINTEX, Model: LBP122220, Ø 22 mm non-threaded sleeve.</li> </ol>
80198737	2024-04-12	Evaluation to update cCSAus report 70070273 for Ultrasonic Gas Flowmeter FLOWSIC FL600-XT Model Series to clarify notes section and Conditions of Acceptability section, and deletion Class I, Division 2 marking and type of protection "nA".
80109595	2022-09-30	Evaluation for update to CSA report 70070273 to address following: Changes to PCB IF1 to improve insulation resistance and accommodate alternate Resonator Component. Add alternate material Form In Place Gasket to enclosure for FLOWSIC600-XT. Change humidity rating under environmental conditions to <= 95%.
70114041	2017-03-28	Update report 70070273 with 17 drawings. Modifications include addition of a stainless steel version of enclosure, addition of alternate encapsulant material, minor revisions to flamepath specifications, and correction of the RS485 Ci entity parameter.



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70070273 2016-06-20

Original certification of the FLOWSIC FL600-XT ultrasonic gas flowmeter model F6a-bbccdd-eeff-gggg for use in the following hazardous locations: (A) Intrinsically safe: Class I, Division 1, Groups A, B, C, D; Ex ia IIC; Class I, Zone 0, AEx ia op is IIC, where ee = CI, BI or AI. (B) Explosion-proof / non-incendive: Class I, Division 1, Groups B, C, D; Ex d ia [ia Ga] IIC; Class I, Zone 1, AEx d ia op is [ia Ga] IIC; Class I, Division 2, Groups A, B, C, D; Ex ia nA IIC; Class I, Zone 2 AEx ia nA op is IIC, where ee = CD, BD or AD. (C) Non-incendive: Class I, Division 2, Groups A, B, C, D; Ex ia nA IIC; Class I, Zone 2 AEx ia nA op is IIC, where ee = CN.