



Certificate of Compliance

Certificate: 2225610

Master Contract: 151079

Project: 80199828

Date Issued: 2024-04-02

Issued To: Endress+Hauser SE+Co. KG
Hauptstrasse 1
Maulburg, Baden-Württemberg, 79689
Germany

Attention: Emil Remolana

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.



Issued by: Anil Sodhi
Anil Sodhi

PRODUCTS

- CLASS 2258 02** - PROCESS CONTROL EQUIPMENT - For Hazardous Locations
- CLASS 2258 82** - PROCESS CONTROL EQUIPMENT - For Hazardous Locations– Certified to U.S. Standards

Class I, Division 2, Groups A, B, C and D:

Product	Levelflex, series FMP5x-...; FMP50-C2Acdeffgghhh-i FMP51-C2Acdeffgghhh-i FMP52-C2Acdeffhhh-i FMP53-C2Acdeffgghhh-i FMP54-C2Acdeffgghhh-i FMP55-C2Acdeffhhh-i FMP56-C2Acdeffgghhh-i FMP57-C2Acdeffgghhh-i
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	<p>Where</p> <p>c = A, C, E, L, M, N</p> <p>d = B, C</p> <p>e = B, C, D</p> <p>ff = AA, AB, AC, AD, AE, AF, AL, AM, AN, AO, BA, BB, BC, BD, CA, CB, DA, DB, EA, EB, FA, FB, GA, GB, HA, HB, IA, IB, LA, LB, LC, LD, LE, LF, LG, LH, MA, MB, MC, MD, ME, MF, MG, MH, NA, NB, NC, ND, NE, NF, OA, OB, OC, OD, UA, UB, UC, UD, YY</p> <p>gg = AB, AD, A1, A4, B3, B5, C3, C4, C5, D1, D2, D3, E1, Y9</p> <p>hhh = alphanumeric characters (not relevant for safety)</p> <p>i = NF; plus any number of additional option codes (not relevant for safety), alphanumeric characters (multiple options may be chosen simultaneously)</p> <p>Note: Some option codes may be restricted for certain model types.</p>
Electrical Rating	35 Vdc, 22.5 mA
Enclosure Rating	Type 4X/6P
Temp. code and ambient/process temperature	T6...T1 with Ta of -40°C to + 80°C with process temperature (-200 to +450°C); refer to installation drawing for specific T-code and temperature ranges per model type
MWP	<p>Maximum Working Pressure (MWP):</p> <p>FMP50; 40 bars</p> <p>FMP51; 40 bars, Dual Seal</p> <p>FMP52; 40 bars, Dual Seal</p> <p>FMP53; 16 bars</p> <p>FMP54; 400 bars, Dual Seal up to 370 bars</p> <p>FMP55; 40 bars, Dual Seal</p> <p>FMP56; 16 bars</p> <p>FMP57; 16 bars</p>
Installation Drawing	XA00530F

Class II, Division 1, Groups E, F and G; Class III:

Product	<p>Levelflex, FMP5x-CDBcdeffgghhh-i;</p> <p>Where</p> <p>x = 4, 6, 7</p> <p>b = A, B, C, E, G, K, L</p> <p>c = A, C, E, L, M, N</p> <p>d = B, C</p> <p>e = B, C, D</p> <p>ff = AE, AF, AN, AO, BA, BB, BC, BD, LA, LB, LC, LD, NB, NC, ND, NE, NF, UA, UB, YY</p> <p>gg = AB, B3, C5, D1, D2, Y9</p> <p>hhh = alphanumeric characters (not relevant for safety)</p>
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	i = NF; plus any number of additional option codes (not relevant for safety), alphanumeric characters (multiple options may be chosen simultaneously) Note: Some option codes may be restricted for certain model types.
Electrical Rating	dependent on power supply, option code 'b'; refer to installation drawing for specifics
Enclosure Rating	Type 4X/6P
Temp. code and ambient/process temperature	T6...T1 with Ta of -40°C to + 80°C with process temperature (-196 to +450°C); refer to installation drawing for specific T-code and temperature ranges per model type
MWP	Maximum Working Pressure (MWP): FMP54; 400 bars FMP56; 16 bars FMP57; 16 bars
Installation Drawing	XA00529F (HART) or XA00570F (PA/FF)

- CLASS 2258 03** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations
CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations– Certified to U.S. Standards

Class I, Division 2, Groups A, B, C and D:

Product	Levelflex, series FMP5x-...; FMP50-aabcdeffgghhh-i FMP51-aabcdeffgghhh-i FMP52-aabcdeffhgg-i FMP53-aabcdeffgghhh-i FMP54-aabcdeffgghhh-i FMP55-aabcdeffhgg-i FMP56-aabcdeffgghhh-i FMP57-aabcdeffgghhh-i Where aa = C2, C3 b = A, B, C, E, G, K, L, M c = A, C, E, L, M, N d = B, C e = B, C, D ff = AA, AB, AC, AD, AE, AF, AL, AM, AN, AO, BA, BB, BC, BD, CA, CB, DA, DB, EA, EB, FA, FB, GA, GB, HA, HB, IA, IB, LA, LB, LC, LD, LE, LF, LG, LH, MA, MB, MC, MD, ME, MF, MG, MH, NA, NB, NC, ND, NE, NF, OA, OB, OC, OD, UA, UB, UC, UD, YY gg = AB, AD, A1, A4, B3, B5, C3, C4, C5, D1, D2, D3, E1, Y9
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	<p>hhh = alphanumeric characters (not relevant for safety) i = NF; plus any number of additional option codes (not relevant for safety), alphanumeric characters (multiple options may be chosen simultaneously)</p> <p>Note: Some option codes may be restricted for certain model types.</p>
Electrical Rating	dependent on power supply, option code 'b'; refer to installation drawing for specifics
Enclosure Rating	Type 4X/6P
Temp. code and ambient/process temperature	T6...T1 with Ta of -40°C to + 80°C with process temperature (-196 to +450°C); refer to installation drawing for specific T-code and temperature ranges per model type
MWP	<p>Maximum Working Pressure (MWP):</p> <p>FMP50; 40 bars, Dual Seal up to 6 bars*</p> <p>FMP51; 40 bars, Dual Seal</p> <p>FMP52; 40 bars, Dual Seal</p> <p>FMP53; 16 bars, Dual Seal up to 6 bars*</p> <p>FMP54; 400 bars, Dual Seal up to 370 bars</p> <p>FMP55; 40 bars, Dual Seal</p> <p>FMP56; 16 bars, Dual Seal up to 6 bars*</p> <p>FMP57; 16 bars, Dual Seal up to 6 bars*</p> <p>* Dual Seal rating applicable only for option code 'aa' = C3</p>
Installation Drawing	<p>aa = C2: XA00530F (HART) or XA00571F (PA/FF)</p> <p>aa = C3: XA00529F (HART) or XA00570F (PA/FF) or XA01700F (Modbus)</p>
Special conditions	- probe is intrinsically safe for Cl. I, II, III, Division 1 hazardous locations when Certification option code 'aa' = C3, or supply/output option code 'b' = B, C, E, G, K or L (refer to installation drawings for details)

Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III:
Ex ia/db [ia Ga] IIC Tx Gb :
AEx ia/db [ia Ga] IIC Tx Gb :

Product	<p>Levelflex, series FMP5x-...;</p> <p>FMP50-aabcdeffgghhh-i</p> <p>FMP51-aabcdeffgghhh-i</p> <p>FMP52-aabcdeffhhh-i</p> <p>FMP53-aabcdeffgghhh-i</p> <p>FMP54-aabcdeffgghhh-i</p> <p>FMP55-aabcdeffhhh-i</p> <p>FMP56-aabcdeffgghhh-i</p> <p>FMP57-aabcdeffgghhh-i</p> <p>Where</p>
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	<p>aa = CC, C3, 8A b = A, B, C, E, G, K, L, M c = A, C, E, L, M, N d = B, C e = B, C, D ff = AA, AB, AC, AD, AE, AF, AL, AM, AN, AO, BA, BB, BC, BD, CA, CB, DA, DB, EA, EB, FA, FB, GA, GB, HA, HB, IA, IB, LA, LB, LC, LD, LE, LF, LG, LH, MA, MB, MC, MD, ME, MF, MG, MH, NA, NB, NC, ND, NE, NF, OA, OB, OC, OD, UA, UB, UC, UD, YY gg = AB, AD, A1, A4, B3, B5, C3, C4, C5, D1, D2, D3, E1, Y9 hhh = alphanumeric characters (not relevant for safety) i = NF; plus any number of additional option codes (not relevant for safety), alphanumeric characters (multiple options may be chosen simultaneously) Note: Some option codes may be restricted for certain model types.</p>
Electrical Rating	dependent on power supply, option code 'b'; refer to installation drawing for specifics
Enclosure Rating	Type 4X/6P
Temp. code and ambient/process temperature	T6...T1 with Ta of -40°C to + 80°C (-50°C to + 80°C with additional option code i=JN) with process temperature (-196 to +450°C); refer to installation drawing for specific T-code and temperature ranges per model type
MWP	<p>Maximum Working Pressure (MWP):</p> <ul style="list-style-type: none"> FMP50; 40 bars, Dual Seal up to 6 bars FMP51; 40 bars, Dual Seal FMP52; 40 bars, Dual Seal FMP53; 16 bars, Dual Seal up to 6 bars FMP54; 400 bars, Dual Seal up to 370 bars FMP55; 40 bars, Dual Seal FMP56; 16 bars, Dual Seal up to 6 bars FMP57; 16 bars, Dual Seal up to 6 bars
Installation Drawing	XA00529F (HART) or XA00570F (PA/FF) or XA01700F (Modbus)
Special conditions	<ul style="list-style-type: none"> - For option code 'aa' = CC, device rated for Class I locations only. - Devices are explosionproof with intrinsically safe probe for Cl. I, II, III, Division 1 hazardous locations. - Factory Sealed, explosionproof conduit "Seal not required" for terminal compartment.

- CLASS 2258 04** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations
- CLASS 2258 84** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations – Certified to U.S. Standards

Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III:
Ex ia IIC Tx Ga:
AEx ia IIC Tx Ga:



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Product	<p>Levelflex, series FMP5x-...; FMP50-aabcdeffgghhh-i FMP51-aabcdeffgghhh-i FMP52-aabcdeffhhh-i FMP53-aabcdeffgghhh-i FMP54-aabcdeffgghhh-i FMP55-aabcdeffhhh-i FMP56-aabcdeffgghhh-i FMP57-aabcdeffgghhh-i</p> <p>Where aa = CB, C2, 8A b = A, B, C, E, G c = A, C, E, L, M, N d = A, B, C e = A,B, C, D, I, M ff = AA, AB, AC, AD, AE, AF, AL, AM, AN, AO, BA, BB, BC, BD, CA, CB, DA, DB, EA, EB, FA, FB, GA, GB, HA, HB, IA, IB, LA, LB, LC, LD, LE, LF, LG, LH, MA, MB, MC, MD, ME, MF, MG, MH, NA, NB, NC, ND, NE, NF, OA, OB, OC, OD, UA, UB, UC, UD, YY gg = AB, AD, A1, A4, B3, B5, C3, C4, C5, D1, D2, D3, E1, Y9 hhh = alphanumeric characters (not relevant for safety) i = NF; plus any number of additional option codes (not relevant for safety), alphanumeric characters (multiple options may be chosen simultaneously)</p> <p>Note: Some option codes may be restricted for certain model types.</p>
Electrical Rating	dependent on power supply, option code 'b'; refer to installation drawing for specifics
Enclosure rating	Type 4X/6P
Temp. code and ambient/process temperature	T6...T1 with Ta of -40°C to + 80°C (-50°C to + 80°C with additional option code i=JN) with process temperature (-196 to +450°C); refer to installation drawing for specific T-code and temperature ranges per model type
MWP	<p>Maximum Working Pressure (MWP): FMP50; 40 bars, Dual Seal up to 6 bars* FMP51; 40 bars, Dual Seal FMP52; 40 bars, Dual Seal FMP53; 16 bars, Dual Seal up to 6 bars* FMP54; 400 bars, Dual Seal up to 370 bars FMP55; 40 bars, Dual Seal FMP56; 16 bars, Dual Seal up to 6 bars* FMP57; 16 bars, Dual Seal up to 6 bars*</p> <p>* Dual Seal rating applicable only for option code 'aa' = 8A</p>



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Installation Drawing	XA00530F (HART) or XA00571F (PA/FF)
Special conditions	- For option code 'aa' = CB, device rated for Class I locations only.

- CLASS 2252 06** - PROCESS CONTROL EQUIPMENT
CLASS 2252 86 - PROCESS CONTROL EQUIPMENT (Certified to U.S. Standards)

• Levelflex, FMP5x-CAbcdeffgghhh-i; electrical ratings dependent on I/O modules (supply/output option, suffix code b) as tabulated below; enclosure type 4X/6P; Ambient temp range -40C to +80C (-50°C to + 80°C with additional option code i=JN). Suffixes denote options for supply/output, display, housing, electrical connection, probe, seal, process connection and additional options (multiple additional options may be used).

Supply/Output option (suffix code, b =)	Characteristic	Input voltage	Power
A	2-wire; 4-20mA HART	35 Vdc	0.9 W
B	2-wire; 4-20mA HART, PFS = Status Output	35 Vdc	1.5 W
C	2-wire; 4-20mA HART, 4-20mA	30 Vdc	1.4 W
E	2-wire; FOUNDATION Fieldbus, PFS = Status Output	35 Vdc	1.2 W
G	2-wire; 4-20mA PROFIBUS PA, PFS = Status Output	35 Vdc	1.2 W
K	4-wire; 90-253VAC, 4-20mA HART	90-250 Vac	6 VA
L	4-wire; 10,4-48VDC, 4-20mA HART	10.4-48 Vdc	1.3 W
M	4-wire; Modbus RS485	10.5-29 Vdc	900 mW

For option code 'b' = A, B, C, E, G, and M: To be supplied by Class 2 or limited-energy source in accordance with Standard UL/CSA 61010-1-12



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APPLICABLE REQUIREMENTS

- CSA Std C22.2 No. 25-1966 (R2009) - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
- C22.2 No. 30-M1986 (R2007) - Explosion-Proof Enclosures for Use in Class I Hazardous Locations
- CAN/CSA-C22.2 No. 94-M91 (R2011) - Special Purpose Enclosures
- CSA C22.2 No. 157-92 (R2006) - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
- CSA Std C22.2 No. 213-M1987 (R2008) - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
- CAN/CSA C22.2 No. 61010-1-12 (r2017) - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements - Second Edition
- CAN/CSA-C22.2 No. 60079-0:15 - Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
- CAN/CSA-C22.2 No. 60079-1:11 - Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures "d"
- CAN/CSA-C22.2 No. 60079-11:14 - Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic Safety "i"
- FM 3600 – 1998 - Electrical Equipment for Use in Hazardous (Classified) Locations, General Requirements
- FM 3610 – 2010 - Intrinsically Safe Apparatus for Use in Class I, II & III, Division 1, and Class I, Zone 0 & 1 Hazardous (Classified) Locations
- FM 3611- 2004 - Nonincendive Electrical Equipment for Use in Class I and Class II, Division 2, and Class III, Division 1 and 2 Hazardous (Classified) Locations
- FM 3615 – 2006 - Explosionproof Electrical Equipment, General Requirements
- FM 3810 – 2005 - Electrical and Electronic Test, Measuring, and Process Control Equipment
- ANSI/ISA 60079-0 (12.00.01) -2013 - Explosive atmospheres – Part 0: Equipment - General Requirements
- ANSI/ISA 60079-1 (12.22.01) -2009 - Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Enclosures "d"
- ANSI/ISA 60079-11 (12.02.01) - 2014 - Explosive Atmospheres - Part 11: Equipment Protection by intrinsic safety "i"
- ANSI/ ISA-61010-1 (82.02.01): 2012 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1 General Requirements
- ANSI/NEMA 250 – 1997 - Enclosures for Electrical Equipment
- ANSI/ISA 12.27.01-2003 - Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids

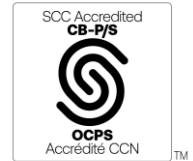


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Notes:

Products certified under Class C225206, C225802, C225803, C225804, C225286, C225882, C225883, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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

Product Certification History

Project	Date	Description
80199828	2024-04-02	The scope of this project is to update cCSAus certification report 2225610 for Levelflex series FMP5x device to include some additional order codes for the sensor probe and revision to descriptive documents.
80001921	2019-06-05	Update CSA report 2225610 to include the following modifications on Levelflex series FMP5x: Addition of Bluetooth model BT10 option module TRC[44]; Addition of TRC[13] & [40] to include transmitter and receiver board; and Documentation updates.
70146629	2017-11-09	Update CSA report 2225610 to include additional ProToF modules to be used in the final assembly for extended temperature range -50°C. Addition of new module IO430 for Modbus output. This report also includes the evaluation of Ordinary Location electrical safety as sessment to third edition of IEC61010-1. Some of the Hazloc standards are updated to the revised editions.
70094292	2016-09-12	Update to CSA report 2225610 to include a private label for MPI. Update one drawing to correct the type error.
70076925	2016-05-03	Update to include additional ProToF electronic modules and to include the GT19 enclosure.
2675459	2014-03-11	Update to include the latest ProToF components based on a successful review of IECEx Test Report NL/KEM/ExTR10.0055/03.
2594500	2013-01-21	Update to the report to make changes to the installation drawing for Levelflex.
2534880	2012-06-18	Update to include revised control drawings due to corrected temperature de-rating tables for I.S. equipment.
2456092	2011-09-28	Update to include accepted I/O Modules, 4-Wire and PA/FF options.
2225610	2010-08-26	Original certification of LevelFlex, series FMP5x.