



Certificate of Compliance

Certificate:	1733312	Master Contract:	200600
Project:	80260707	Date Issued:	2026-07-21
Issued to:	Endress+Hauser Wetzler GmbH Co. KG Obere Wank 1 Nesselwang, Bavaria 87484 Germany	Issued by:	<i>Amandeep Khatra Amandeep Khatra</i>

Attention: Eva Rizzo

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

Class I, Div.1, Groups A, B, C and D;

Class II, Div.1, Groups E, F and G;

Class III:

Temperature sensor assemblies in type of protection explosion proof and dust-ignition proof which consists of an enclosure with or without installed temperature transmitter and connected sensor.

Model numbers T13, T14, T53, T54, transmitters rated 10....42Vdc, 3 W max.; sensor rated max. 50 mW; Install per- and refer for detailed ratings to Control dwgs 16 01 00 116, 16 01 00 118 and 10000011304.

May be assembled with the following certified enclosure (explosion-proof) and component options:



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- Enclosures TMT142 (**) and TMT162 (**), die cast aluminum or stainless steel 316, conduit entry size ½ inch NPT, assembled with spring loaded inserts/sensors TU111 and TU121 (Part no. H0316-03) and one or more components Part Nos. H0316-01, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (*) (**). Encl. Type 4X.
- Enclosures TA30H (**), die cast aluminum or stainless steel 316, conduit entry sizes ½ inch NPT or ¾ inch NPT assembled with spring loaded inserts/sensors TU111 and TU121 (Part no. H0316-03) and one or more components Part Nos. H0316-01, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (*). Encl. Type 4X.
- Model numbers T15, T55, transmitters rated 10...42Vdc, 3 W max.; sensor rated max. 50 mW; Install per- and refer for detailed ratings to Control dwgs 16 01 00 115, 16 01 00 117 and 10000011304.

May be assembled with the following certified enclosure (explosion-proof) and component options:

- Enclosures TMT142 and TMT162, die cast aluminum or stainless steel 316, conduit entry size ½ inch NPT, assembled with spring loaded inserts/sensors TU211 and TU221 (Part no. 16 01 00 240) and one or more components Part Nos. H0316-01 and G6 03 20 200. Encl. Type 4X.
- Enclosures TA30H, die cast aluminum or stainless steel 316, conduit entry sizes ½ inch NPT or ¾ inch NPT assembled with spring loaded inserts/sensors TU211 and TU221 (Part no. 16 01 00 240) and one or more components Part Nos. 16 01 00 240, H0316-01 and G6 03 20 200. Encl. Type 4X.
- Model number iTHERM, type TM111, TM611 and TM112 transmitters rated 10...42 Vdc, 3 W max.; sensor rated max. 50 mW. Install per- and refer for detailed ratings to Control drawing 10000010342 (XA01961T)
See listing details ahead.
- Model number iTHERM, type TM131, TM151 and TM152 transmitters rated 10...42 Vdc, 3 W max.; sensor rated max. 50 mW. Install per- and refer for detailed ratings to Control drawing 10000010342 (XA01961T)
See listing details ahead.

May be assembled with the following certified enclosure and component options:

- Enclosure TMT142 or TMT162, die cast aluminum or stainless steel, conduit entry size ½ inch NPT or M20x1.5, assembled with one or dual sensors; Encl. Type 4X; IP66/67
- Enclosure Series TA30H (**), TA30A (***) or TA30D (***), die cast aluminum or stainless steel, conduit entry sizes ½ inch NPT or M20x1.5, assembled with one or dual sensors; Encl. Type 4X; IP66/67

(*) Note: Spring loaded sensor assemblies Part Nos. H0315-02 must be used with thermowell.

(**) Note: All conduits must be sealed within 18" for enclosures TMT142, TMT162 and TA30H.

(***) Class II, Class III application only

T-class	<u>T13, T14, T15, T53, T54, T55</u>		
	<u>Ambient temperature range</u>		
	<u>With head transmitter TMT18x, TMT8x, TMT7x, TMT31</u>	<u>Without electronic or with terminal block</u>	<u>With assembled field transmitter TMT162, TMT142*, TMT142B**</u>
<u>T6/T85°C</u>	<u>-40°C ≤ Ta ≤ +65°C</u>	<u>-50°C ≤ Ta ≤ +70°C</u>	<u>-40°C ≤ Ta ≤ +55°C</u>
<u>T5/T100°C</u>	<u>-40°C ≤ Ta ≤ +80°C</u>	<u>-50°C ≤ Ta ≤ +80°C</u>	<u>-40°C ≤ Ta ≤ +70°C</u>
<u>T4/T135°C</u>	<u>-40°C ≤ Ta ≤ +85°C</u>	<u>-50°C ≤ Ta ≤ +120°C</u>	<u>-40°C ≤ Ta ≤ +85°C</u>

*For models T13, T14, T15, T53, T54; T55 only

**The maximum ambient temperature for model TMT142B is limited to +70 °C for the display models

Type	<u>Insert diameter</u>	<u>T- class Max. surface</u>	<u>Process temperature range for assembled head transmitter TMT18x, TMT8x, TMT7x, TMT31 and TMT142B or with terminal block (P ≤ 50 mW)</u>	<u>Process temperature range for assembled field transmitter TMT162, TMT142*</u>
<u>T13**</u>	<u>3mm</u>	<u>T6/T85°C</u>	<u>-50°C ≤ Tp ≤ +66°C</u>	<u>-50°C ≤ Tp ≤ +64°C</u>



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T14**	3mm(dual)	T5/T100°C	-50°C < Tp < +81°C	-50°C < Tp < +79°C
T15	6mm dual	T4/T135°C	-50°C < Tp < +116°C	-50°C < Tp < +114°C
T53**		T3/T200°C	-50°C < Tp < +181°C	-50°C < Tp < +179°C
T54**		T2/T300°C	-50°C < Tp < +276°C	-50°C < Tp < +279°C
T55		T1/T450°C	-50°C < Tp < +426°C	-50°C < Tp < +424°C
	6mm	T6/T85°C	-50°C < Tp < +73°C	-50°C < Tp < +71°C
		T5/T100°C	-50°C < Tp < +88°C	-50°C < Tp < +86°C
		T4/T135°C	-50°C < Tp < +123°C	-50°C < Tp < +121°C
		T3/T200°C	-50°C < Tp < +188°C	-50°C < Tp < +186°C
		T2/T300°C	-50°C < Tp < +283°C	-50°C < Tp < +286°C
		T1/T450°C	-50°C < Tp < +433°C	-50°C < Tp < +431°C

*For models T13, T14, T15, T53, T54; T55 only

**Single Seal device for process temperature of -50°C to +130°C, MWP 2,500 psi (Only applicable to T13, T14, T53 and T54 temperature sensor assemblies).

See table 1a, 1b for Temperature Codes/Max Surface Temperature vs Ambient temperature for various Thermometer Models, type TM111, TM112, TM131, TM151, TM152

Ex db IIC T6...T1 Gb

Ex tb IIIC T85 °C...T450 °C Db

Class I, Zone 1, AEx db IIC T6...T1 Gb

Zone 21, AEx tb IIIC T85 °C...T450 °C Db

Temperature sensor assemblies in type of protection explosion proof and dust-ignition proof which consists of an enclosure with or without installed temperature transmitter and connected sensor.

- Model number iTHERM, type TM111, TM611 and TM112 transmitters rated 10...42 Vdc, 3 W max.; sensor rated max. 50 mW. Install per- and refer for detailed ratings to Control drawing [10000010342](#) (XA01961T)

TM111-aabccdde fghhijklmmnnoppqrrssttuuvv

Where:

Suffi x code	Explanation	Value	Explanation
aa	Approval	CF	CSA C/US XP, DIP I, II, III/1/A-G, I Z1 Ex d, Z21 Ex t
		CG	CSA C/US DIP II, III/1/E-G, Z21 Ex tb
b	Insert Diameter	A	3 mm
		C	6 mm
cc	Process Connection; Material	n.s. *1	Not relevant for Explosion Safety
dd	Immersion Length "U"	n.s. *1	Not relevant for Explosion Safety
e	Lagging Length "T"	n.s. *1	Not relevant for Explosion Safety
f	Sensor Type;	A	1xPt100 TF; -50...+400 °C; 316L
	Measuring Range;	B	1xPt100 WW; -200...+600 °C; 316L
	Material	C	2xPt100 WW; -200...+600 °C; 316L
		D	1xPt100 TF StrongSens; -50...+500 °C; 316L



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Suffix code	Explanation	Value	Explanation
		E	1xPt100 TF QuickSens; -50...+200 °C; 316L
		F	1xPt100 TF QuickSens; -50...+400 °C; 316L
		L	1xTC type J; max. 800 °C; 316L
		M	2xTC type J; max. 800 °C; 316L
		N	1xTC type K; max. 1100 °C; Alloy600
		O	2xTC type K; max. 1100 °C; Alloy600
g	Sensor Standard; Classification	n.s. *1	Not relevant for Explosion Safety
hh	Electrical Connection	0A	Flying leads
		1A	Terminal block (only with terminal head A1, D1, H1 H3)
		2A	4-20mA, 1-channel TMT180 PCP 0.2K, head transmitter DIN B
		2B	4-20mA, 1-channel TMT180 PCP 0.1K, head transmitter DIN B
		2C	4-20mA, 1-channel TMT71, head transmitter DIN B
		2H	4-20 mA, 1-channel TMT31, PCP 0.15 K, head transmitter DIN B
		2I	4-20 mA, 1-channel TMT31, PCP 0.1 K, head transmitter DIN B
		3A	HART, 1-channel TMT72, head transmitter DIN B
		3C	HART, 2-channel TMT82, head transmitter DIN B
		3D	HART, 2-channel TMT82, SIL head transmitter DIN B
		3F	HART, 2-channel TMT82 SIL OIML/MID for gas, head transmitter DIN B
		3I	HART, 2-channel TMT82 SIL OIML/MID for liquids, head transmitter DIN B
		4A	FOUNDATION Fieldbus, 2-channel TMT85, head transmitter DIN B
		5A	PROFIBUS PA, 2-channel TMT84, head transmitter DIN B
		6B	PROFINET w. Ethernet-APL/SPE, TMT86, head transmitter DIN B
		6C	PROFINET w. Ethernet-APL/SPE, TMT86 SIL, conformity + PROFIsafe, head transmitter DIN B
		6U *3	IO-Link, 1-channel TMT36, head transmitter DIN B
ii	Terminal Head;	A1 *2	TA30A comfort flip cover; Alu; IP66/68
	Material;	A2 *2	TA30A + display, comfort flip cover; Alu; IP66/68
	Protect. Class	D1 *2	TA30D comfort, high flip cover; Alu; IP66/68
		H1	TA30H Ex d/XP; 316L; IP66/68
		H2	TA30H Ex d/XP + display; 316L; IP66/68
		H3	TA30H Ex d/XP; Alu; IP66/68
		H4	TA30H Ex d/XP + display; Alu; IP66/68
j	Cable entry	A	1x thread M20x1.5
	Terminal head	B	1x thread NPT1/2
		D	2x thread M20x1.5
		E	2x thread NPT1/2



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Suffix code	Explanation	Value	Explanation
kk	Device Version	n.s. *1	Not relevant for Explosion Safety
ll	Second Transmitter (mounted)		Not allowed
mm	Service	n.s. *1	Not relevant for Explosion Safety
nn	Test, Certificate, Declaration	n.s. *1	Not relevant for Explosion Safety
oo	Additional Approval	n.s. *1	Not relevant for Explosion Safety
pp	Additional Option	n.s. *1	Not relevant for Explosion Safety
qq	Accessory Mounted	n.s. *1	Not relevant for Explosion Safety
rr	Calibration Thermometer	n.s. *1	Not relevant for Explosion Safety
ss	Calibration Points $\geq 0^{\circ}\text{C}$	n.s. *1	Not relevant for Explosion Safety
tt	Calibration-Points $\leq 0^{\circ}\text{C}$	n.s. *1	Not relevant for Explosion Safety
uu	Firmware Version	n.s. *1	Not relevant for Explosion Safety
vv	Marking	n.s. *1	Not relevant for Explosion Safety

*1 n.s. means the value is neither related to Explosion Safety nor in the scope.

*2 only possible when suffix code aa = CG

*3 not possible for non-incendive installation in Class I, Div.2.

TM112-aabccdde fghhijkklmmnnooppqrrssttuuv

Where:

Suffix code	Explanation	Value	Explanation
aa	Approval	CF	CSA C/US XP, DIP I, II, III/1/A-G, I Z1 Ex d, Z21 Ex t
		CG	CSA C/US DIP II, III/1/E-G, Z21 Ex tb
b	Insert Diameter	A	1/8"
		B	1/4"
		C	3/8"
		D	3/8" reduced to 3/16"
		M	3mm
		N	6mm
cc	Process Connection; Material	n.s. *1	Not relevant for Explosion Safety
dd	Immersion Length "U"	n.s. *1	Not relevant for Explosion Safety
e	Lagging Length "T"	n.s. *1	Not relevant for Explosion Safety
f	Sensor Type;	A *4	1xPt100 Basic TF; -50...+200oC
	Measuring Range;	B *4	2xPt100 Basic TF; -50...+200oC
	Material	C	1xPt100 WW; -200...+600oC; 316L
		D	2xPt100 WW; -200...+600oC; 316L
		E	1xPt100 TF StrongSens; -50...+500oC; 316L
		F	1xPt100 TF QuickSens; -50...+200oC; 316L
		L	1xTC type J; max. 800oC; 316L



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Suffi x code	Explanation	Value	Explanation
		M	2xTC type J; max. 800oC; 316L
		N	1xTC type K; max. 1100oC; Alloy600
		O	2xTC type K; max. 1100oC; Alloy600
		P	1xTC type N; max. 1100oC; Alloy600
		Q	2xTC type N; max. 1100oC; Alloy600
g	Sensor Standard; Classification	n.s. *1	Not relevant for Explosion Safety
hh	Electrical Connection	0A	Flying leads
		1A	Terminal block (only with terminal head A1, D1, HI H3)
		2C	4-20mA, 1-channel TMT71, head transmitter DIN B
		2D	4-20mA HART, TMT162, field transmitter
		2F	4-20mA HART, 2-channel TMT162
		2H	4-20 mA, 1-channel TMT31, PCP 0.15 K, head transmitter DIN B
		2I	4-20 mA, 1-channel TMT31, PCP 0.1 K, head transmitter DIN B
		3A	HART, 1-channel TMT72, head transmitter DIN B
		3C	HART, 2-channel TMT82, head transmitter DIN B
		3D	HART, 2-channel TMT82, SIL head transmitter DIN B
		3F	4-20mA HART, 2-channel TMT82 SIL OIML/MID for gas, head transmitter DIN B
		3I	4-20mA HART, 2-channel TMT82 SIL OIML/MID for liquids, head transmitter DIN B
		4A	FOUNDATION Fieldbus, 2-channel TMT85, head transmitter DIN B
		5A	PROFIBUS PA, 2-channel TMT84, head transmitter DIN B
		6B	PROFINET w. Ethernet-APL/SPE, TMT86, head transmitter DIN B
		6C	PROFINET w. Ethernet-APL/SPE, TMT86 SIL, conformity + PROFIsafe, head transmitter DIN B
		6U *3	IO-Link, 1-channel TMT36, head transmitter DIN B
		7A	4-20mA HART, 1-channel TMT142 field transmitter
ii	Terminal Head;	A1 *2	TA30A comfort flip cover; Alu; IP66/68
	Material;	A2 *2	TA30A + display, comfort flip cover; Alu; IP66/68
	Protect. Class	D1 *2	TA30D comfort, high flip cover; Alu; IP66/68
		F1	Dual chamber field housing; Alu; IP67 NEMA 4X, backlid display
		F3	Single chamber field housing; Alu; IP67 NEMA 4X, backlid display
		F5	Single chamber field housing; Alu; IP67 NEMA 4X, w/o display
		F7	Dual chamber field housing; Alu; IP67 NEMA 4X, w/o display
		H1	TA30H Ex d/XP; 316L; IP66/68
		H2	TA30H Ex d/XP + display; 316L; IP66/68



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Suffix code	Explanation	Value	Explanation
		H3	TA30H Ex d/XP; Alu; IP66/68
		H4	TA30H Ex d/XP + display; Alu; IP66/68
j	Cable entry	A	1x M20x1.5 female thread
	Terminal head	B	1x NPT1/2 female thread
		E	2x NPT1/2 female thread
		F	1x NPT3/4 female thread
		G	2x NPT3/4 female thread
kk	Device Version	n.s. *1	Not relevant for Explosion Safety
ll	Second Transmitter (mounted)		Not allowed
mm	Service	n.s. *1	Not relevant for Explosion Safety
nn	Test, Certificate, Declaration	n.s. *1	Not relevant for Explosion Safety
oo	Additional Approval	n.s. *1	Not relevant for Explosion Safety
pp	Additional Option	n.s. *1	Not relevant for Explosion Safety
qq	Accessory Mounted	n.s. *1	Not relevant for Explosion Safety
rr	Calibration Thermometer	n.s. *1	Not relevant for Explosion Safety
ss	Calibration Points $\geq 0^{\circ}\text{C}$	n.s. *1	Not relevant for Explosion Safety
tt	Calibration-Points $\leq 0^{\circ}\text{C}$	n.s. *1	Not relevant for Explosion Safety
uu	Firmware Version	n.s. *1	Not relevant for Explosion Safety
vv	Marking	n.s. *1	Not relevant for Explosion Safety

*1 n.s. means the value is neither related to Explosion Safety nor in the scope.

*2 only possible when suffix code aa = CG

*3 not possible for non-incendive installation in Class I, Div.2.

*4 only possible with Division marking

TM611-aabcccdedfgghhijklmmnnnooppqrrssttuuvvww

Where

Suffix code	Explanation	Value	Explanation
a	Approval	CF	CSA C/US XP, DIP I, II, III/1/A-G, I Z1 Ex d, Z21 Ex t
		CG	CSA C/US DIP II, III/1/E-G, Z21 Ex tb
b	Thermometer Design	A	Industrial thermometer, G1/2 connection
ccc	Pipe outer diameter; Material; Form	n.s. *1	Not relevant for Explosion Safety
d	Neck length E	A	43mm (1.7")
		B	55mm (2.2")
		C	93mm (3.7")
		D	105mm (4.1")
		E	143mm (5.6")
		F	155mm (6.1")
		X	... mm (100...500mm)
e	Sensor Type;	A	1xPt100 TF; -50...+400 °C; 316L



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Suffix code	Explanation	Value	Explanation
	Measuring Range;	B	1xPt100 WW; -200...+600 °C; 316L
	Material	C	2xPt100 WW; -200...+600 °C; 316L
		L	1xTC type J; max. 800 °C; 316L
		M	2xTC type J; max. 800 °C; 316L
		N	1xTC type K; max. 1100 °C; Alloy600
		O	2xTC type K; max. 1100 °C; Alloy600
ff	Sensor Standard; Classification	n.s. *1	Not relevant for Explosion Safety
gg	Electrical Connection	0A	Flying leads
		1A	Terminal block
		2C	4-20mA, 1-channel TMT71, head transmitter DIN B
		2H	4-20 mA, 1-channel TMT31, PCP 0.15 K, head transmitter DIN B
		2I	4-20 mA, 1-channel TMT31, PCP 0.1 K, head transmitter DIN B
		3A	HART, 1-channel TMT72, head transmitter DIN B
		3C	HART, 2-channel TMT82, head transmitter DIN B
		3D	HART, 2-channel TMT82, SIL head transmitter DIN B
		3F	4-20mA HART, 2-channel TMT82 SIL OIML/MID for gas, head transmitter DIN B
		3I	4-20mA HART, 2-channel TMT82 SIL OIML/MID for liquids, head transmitter DIN B
		4A	FOUNDATION Fieldbus, 2-channel TMT85, head transmitter DIN B
		5A	PROFIBUS PA, 2-channel TMT84, head transmitter DIN B
		6B	PROFINET w. Ethernet-APL/SPE, TMT86, head transmitter DIN B
		6C	PROFINET w. Ethernet-APL/SPE, TMT86 SIL, conformity + PROFIsafe, head transmitter DIN B
		6U *2	IO-Link, 1-channel TMT36, head transmitter DIN B
hh	Terminal Head;	A1 *2	TA30A comfort flip cover; Alu; IP66/68
	Material;	A2 *2	TA30A + display, comfort flip cover; Alu; IP66/68
	Protect. Class:	D1 *2	TA30D comfort, high flip cover; Alu; IP66/68
		H1	TA30H Ex d/XP; 316L; IP66/68
		H2	TA30H Ex d/XP + display; 316L; IP66/68
		H3	TA30H Ex d/XP; Alu; IP66/68
		H4	TA30H Ex d/XP + display; Alu; IP66/68
ii	Cable entry	A	1x thread M20x1.5
	Terminal head	B	1x thread NPT1/2
		D	2x thread M20x1.5
		E	2x thread NPT1/2
j	Wire; Sheath	A	Not needed
k	Length Extension	A	Not needed
ll	Device Model	n.s. *1	Not relevant for Explosion Safety
mm	Second Transmitter (mounted)		Not allowed



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nn	Service	n.s. *1	Not relevant for Explosion Safety
oo	Test, Certificate, Declaration	n.s. *1	Not relevant for Explosion Safety
pp	Additional Approval	n.s. *1	Not relevant for Explosion Safety
qq	Additional option	n.s. *1	Not relevant for Explosion Safety
rr	Accessory mounted	n.s. *1	Not relevant for Explosion Safety
ss	Calibration Thermometer	n.s. *1	Not relevant for Explosion Safety
tt	Calibration Points $\geq 0^{\circ}\text{C}$	n.s. *1	Not relevant for Explosion Safety
uu	Calibration Points $\leq 0^{\circ}\text{C}$	n.s. *1	Not relevant for Explosion Safety
vv	Firmware Version	n.s. *1	Not relevant for Explosion Safety

*1 n.s. means the value is neither related to Explosion Safety nor in the scope.

*2 not possible for non-incendive installation in Class I, Div.2.

See Table 1a, 1b for Temperature Codes/Max Surface Temperature vs Ambient temperature for various Thermometer Models

Ex db IIC T6...T1 Ga/Gb

Ex ta IIIC T 85 °C...T 450 °C Da / Ex tb IIIC T85 °C...T450 °C Db

Class I, Zone 1 AEx db IIC T6...T1 Ga/Gb

Zone 20/21, AEx ta IIIC T85 °C...T450 °C Da / AEx tb IIIC T85 °C...T450 °C Db

Temperature sensor assemblies in type of protection flame proof and dust-ignition proof which consists of an enclosure with or without installed temperature transmitter and connected sensor.

- Model number iTHERM, type TM131, TM151 and TM152 transmitters rated 10...42 Vdc, 3 W max.; sensor rated max. 50 mW. Install per- and refer for detailed ratings to Control drawing [10000010342](#) (XA01961T)

TM131-aabceddeefghijklmmnnnooppqrrssttuuvvwwxyzz

Where

Suffi x code	Explanation	Value	Explanation
aa	Approval	CF	CSA C/US XP, DIP I, II, III/1/A-G, I Z0/Z1 Ex d, Z20/21 Ex t
		CG	CSA C/US DIP II, III /1/E-G, Z20/21 Ex ta/tb
b	Thermowell	A	Thermometer to be assembled into existing thermowell
		B	Thermometer with thermowell, continuous, similar to DIN43772 Form 2, 3 G/F
		C	Thermometer with thermowell, hexagonal, similar to DIN43772 Form 5, 8
		D	Thermometer with thermowell, w/o lagging, similar to DIN43772 Form 2, 3
c	Thermometer Design	A	W/o neck, DIN43772 form 2
		B	Lagging, DIN43772 form 2G, 2F, 3G, 3F



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Suffix code	Explanation	Value	Explanation
		D	Removable neck D11mm acc. to DIN43772
		E	Removable neck D12mm acc. to DIN43772
		F	Removable neck D12mm M20 connection similar to DIN43772
		L	Nipple connection NPT1/2
		M	Nipple-union connection NPT1/2
		N	Nipple-union-nipple connection NPT1/2
dd	Process Connection; Material	n.s. *1	Not relevant for Explosion Safety
ee	Thermowell Diameter, Material	A1	W/o, insert D3mm, to be assembled into existing thermowell
		A2	W/o, insert D6mm, to be assembled into existing thermowell
		B1	9x1.25 mm, 316L
		B2	11x2 mm, 316L
		B3	14x2 mm, 316L
		B4	16x3.5 mm, 316L
		C1	9x1.25 mm, 316Ti
		C2	11x2 mm, 316Ti
		C3	14x2 mm, 316Ti
		C4	12x2.5 mm, 316Ti BASF
		D1	9x1.25 mm, AlloyC276
		D2	11x2 mm, AlloyC276
		E1	9x1.25 mm, Alloy600
		E2	11x2 mm, Alloy600
		F1	1/4"sch.80, 316
		F2	1/2"sch.80, 316
		G1	1/2"sch.40, 446
		H1	12x2.5 mm, 321
		I1	11 mm 316Ti + 12mm Tantal
		I2	12x2.5 mm 316Ti + 13mm Tantal
		YY_3	Thermowell type TT131 G6D
ff	Tip Shape	A	Not needed (without thermowell)
		B	Straight (DIN 43772 form 2/2G/2F)
		C	Reduced, L>=50 mm
		D	Reduced, L>=70 mm
		E	Tapered, L>=90 mm
		F	Tapered, L>=115 mm (DIN 43772 Form 3G/3F)
		G	Tapered for usage with Tantal-sleeve
		H	Straight, for quick response times
		I	Tapered, for quick response times
gg	Immersion Length U	n.s. *1	Not relevant for Explosion Safety
hh	Removable Neck Length E	n.s. *1	Not relevant for Explosion Safety
ii	Lagging Length T	n.s. *1	Not relevant for Explosion Safety
j	Sensor Type;	A	1xPt100 TF; -50...+400 °C; 316L
	Measuring Range;	B	1xPt100 WW; -200...+600 °C; 316L



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Suffi x code	Explanation	Value	Explanation
	Material	C	2xPt100 WW; -200...+600 °C; 316L
		D	1xPt100 TF StrongSens; -50...+500 °C; 316L
		E	1xPt100 TF QuickSens; -50...+200 °C; 316L
		F	1xPt100 TF QuickSens; -50...+400 °C; 316L
		L	1xTC type J; max. 800 °C; 316L
		M	2xTC type J; max. 800 °C; 316L
		N	1xTC type K; max. 1100 °C; Alloy600
		O	2xTC type K; max. 1100 °C; Alloy600
		P	1xTC type N; max. 1100 °C; Pyrosil
		Q	2xTC type N; max. 1100 °C; Pyrosil
kk	Sensor Standard; Classification	n.s. *1	Not relevant for Explosion Safety
ll	Electrical Connection	0A	Flying leads
		1A	Terminal block (only with terminal head A1, D1, H1 H3)
		2A	4-20 mA, 1-channel TMT180 PCP 0.2K, head transmitter DIN B
		2B	4-20 mA, 1-channel TMT180 PCP 0.1K, head transmitter DIN B
		2C	4-20 mA, 1-channel TMT71, head transmitter DIN B
		2D *3	4-20 mA HART, TMT162
		2E *3	4-20mA HART, TMT162 SIL
		2F *3	4-20mA HART, 2-channel TMT162
		2G *3	4-20mA HART, 2-channel TMT162 SIL
		2H	4-20mA, 1-channel TMT31, PCP 0.15 K, head transmitter DIN B
		2I	4-20mA, 1-channel TMT31, PCP 0.1 K, head transmitter DIN B
		3A	HART, 1-channel TMT72, head transmitter DIN B
		3C	HART, 2-channel TMT82, head transmitter DIN B
		3D	HART, 2-channel TMT82, SIL head transmitter DIN B
		3F	4-20mA HART, 2-channel TMT82 SIL OIML/MID for gas, head transmitter DIN B
		3I	4-20mA HART, 2-channel TMT82 SIL OIML/MID for liquids, head transmitter DIN B
		4A	FOUNDATION Fieldbus, 2-channel TMT85, head transmitter DIN B
		4B *3	FOUNDATION Fieldbus, TMT162
		4C *3	FOUNDATION Fieldbus, 2-channel TMT162
		5A	PROFIBUS PA, 2-channel TMT84, head transmitter DIN B
		5B *3	PROFIBUS PA, TMT162
		5C *3	PROFIBUS PA, 2-channel TMT162
		6B	PROFINET w. Ethernet-APL/SPE, TMT86, head transmitter DIN B
		6C	PROFINET w. Ethernet-APL/SPE, TMT86 SIL, conformity + PROFIsafe, head transmitter DIN B



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Suffix code	Explanation	Value	Explanation
		6U *5	IO-Link, 1-channel TMT36, head transmitter DIN B
		7A *4	HART, 1-channel TMT142
mm	Terminal Head;	A1 *2	TA30A comfort flip cover; Alu; IP66/68
	Material;	A2 *2	TA30A + display, comfort flip cover; Alu; IP66/68
	Protect. Class	D1 *2	TA30D comfort, high flip cover; Alu; IP66/68
		F1 *3	Dual chamber field housing; Alu; IP67 NEMA 4X, backlit display
		F2 *3	Dual chamber field housing; 316L; IP67 NEMA 4X, backlit display
		F3 *4	Single chamber field housing; Alu; IP67 NEMA 4X, backlit display
		F4 *4	Single chamber field housing; 316L; IP67 NEMA 4X, backlit display
		F5 *4	Single chamber field housing; Alu; IP67 NEMA 4X, w/o display
		F6 *4	Single chamber field housing; 316L; IP67 NEMA 4X, w/o display
		F7 *3	Dual chamber field housing; Alu; IP67 NEMA 4X, w/o display
		F8 *3	Dual chamber field housing; 316L; IP67 NEMA 4X, w/o display
		H1	TA30H Ex d/XP; 316L; IP66/68
		H2	TA30H Ex d/XP + display; 316L; IP66/68
		H3	TA30H Ex d/XP; Alu; IP66/68
		H4	TA30H Ex d/XP + display; Alu; IP66/68
		H5	TA30H field housing, display frontal; Alu; IP66/68
		H6	TA30H field housing, display frontal; 316; IP66/68
n	Cable entry	A	1x thread M20x1.5
	Terminal head	B	1x thread NPT 1/2
		D	2x thread M20x1.5
		E	2x thread NPT 1/2
oo	Device Version:	n.s. *1	Not relevant for Explosion Safety
pp	Second Transmitter (mounted)		Not allowed
qq	Service	n.s. *1	Not relevant for Explosion Safety
rr	Test, Certificate, Declaration	n.s. *1	Not relevant for Explosion Safety
ss	Additional Approval	n.s. *1	Not relevant for Explosion Safety
tt	Additional Option	n.s. *1	Not relevant for Explosion Safety
uu	Accessory Mounted	n.s. *1	Not relevant for Explosion Safety
vv	Calibration Thermometer:	n.s. *1	Not relevant for Explosion Safety
ww	Calibration Points $\geq 0^{\circ}\text{C}$	n.s. *1	Not relevant for Explosion Safety
xx	Calibration-Points $\leq 0^{\circ}\text{C}$	n.s. *1	Not relevant for Explosion Safety
yy	Firmware Version	n.s. *1	Not relevant for Explosion Safety
zz	Marking	n.s. *1	Not relevant for Explosion Safety



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*1 n.s. means the value is neither related to Explosion Safety nor in the scope.

*2 only possible when suffix code aa = CG

*3 part of field temperature transmitter TMT162

*4 part of field temperature transmitter TMT142

*5 not possible for non-incendive installation in Class I, Div.2.

TM151-aabcddeefghijklmmnooppqrrssttuuvvwxyz

Where

Suffix code	Explanation	Value	Explanation
aa	Approval	CF	CSA C/US XP, DIP I, II, III/1/A-G, I Z0/Z1 Ex d, Z20/21 Ex t
		CG	CSA C/US DIP II, III /1/E-G, Z20/21 Ex ta/tb
b	Thermowell	I	Thermometer to be assembled into existing thermowell
		A	Based on ASME B40.9, flanged
		B	Based on ASME B40.9, threaded
		C	Based on ASME B40.9, weld in
		D	Based on ASME B40.9, socket weld
		E	Based on DIN 43772 Form 4F, flanged
		G	Based on DIN 43772 Form 4, weld in
		M ^{*2}	Based on NAMUR NE170, flanged
		T	iTHERM TwistWell, flanged
c	Thermometer Design	A	W/o neck
		B	Removeable neck D11mm, M14x1.5, acc. to DIN43772
		C	Removeable neck D11mm, M18x1.5, acc. to DIN43772
		D	Removeable neck D11mm, G1/2", acc. to DIN43772
		E	Removeable neck D12mm, M20 connection similar to DIN43772
		F	QuickNeck(upper half) to mount in existing thermowell with QuickNeck
		G	QuickNeck
		L	NPT1/2 male thread nipple connection
		M	NPT1/2 female thread nipple-union connection
		N	NPT1/2 male thread nipple-union-nipple connection
dd	Thermowell Diameter, Material	AA	W/o, insert 3mm, to be used with thermowell
		AB	W/o, insert 6mm, to be used with thermowell
		AC	316
		AD	316L
		AE	316/316L
		AF	316Ti
		AG	347
		AH	310
		AI	316/316L iTHERM TwistWell
		BA	Alloy600
		BB	AlloyC276
		CA	10CrMo9-10
		CB	13CrMo4-5



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Suffix code	Explanation	Value	Explanation
		CC	16Mo3
		DA	A105
		DB	C22.8 (P250GH)
		DC	P355NH
		EA	Duplex S32205
eee	Process/Thermowell Connection	n.s. *1	Not relevant for Explosion Safety
ff	Immersion Length U	n.s. *1	Not relevant for Explosion Safety
gg	Geometry Wetted Parts	A0	Not needed (without thermowell)
		A1	Straight, (complete length U)
		C1	Tapered, (complete length U)
		G1	Stepped, Re1=63,5mm (2-1/2")
		T1	Tapered, C1=65mm
		T2	Tapered, C1=73mm
		T3	Tapered, C1=125mm
		T4	Tapered, C1=133mm
		T5	Tapered, C1=275mm
		X1	 mm (50...350mm), tapered
		X2	 mm (50...350mm), stepped
		X3	 mm (60...750mm), nozzle length
hh	Removable Neck Length E	n.s. *1	Not relevant for Explosion Safety
i	Lagging Length T	n.s. *1	Not relevant for Explosion Safety
j	Sensor Type;	A	1xPt100 TF; -50...+400 °C; 316L
	Measuring Range;	B	1xPt100 WW; -200...+600 °C; 316L
	Material	C	2xPt100 WW; -200...+600 °C; 316L
		D	1xPt100 TF StrongSens; -50...+500 °C; 316L
		E	1xPt100 TF QuickSens; -50...+200 °C; 316L
		F	1xPt100 TF QuickSens; -50...+400 °C; 316L
		L	1xTC type J; max. 800 °C; 316L
		M	2xTC type J; max. 800 °C; 316L
		N	1xTC type K; max. 1100 °C; Alloy600
		O	2xTC type K; max. 1100 °C; Alloy600
		P	1xTC type N; max. 1100 °C; Pyrosil
		Q	2xTC type N; max. 1100 °C; Pyrosil
k	Sensor Standard; Classification	n.s. *1	Not relevant for Explosion Safety
ll	Electrical Connection	0A	Flying leads
		1A	Terminal block (only with terminal head A1, D1, H1 H3)
		2C	4-20 mA, 1-channel TMT71, head transmitter DIN B
		2D *3	4-20 mA HART, TMT162
		2E *3	4-20mA HART, TMT162 SIL
		2F *3	4-20mA HART, 2-channel TMT162
		2G *3	4-20mA HART, 2-channel TMT162 SIL
		2H	4-20mA, 1-channel TMT31, PCP 0.15 K, head transmitter DIN B



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Suffi x code	Explanation	Value	Explanation
		2I	4-20mA, 1-channel TMT31, PCP 0.1 K, head transmitter DIN B
		3A	HART, 1-channel TMT72, head transmitter DIN B
		3C	HART, 2-channel TMT82, head transmitter DIN B
		3D	HART, 2-channel TMT82, SIL head transmitter DIN B
		3F	4-20mA HART, 2-channel TMT82 SIL OIIML/MID for gas, head transmitter DIN B
		3I	4-20mA HART, 2-channel TMT82 SIL OIIML/MID for liquids, head transmitter DIN B
		4A	FOUNDATION Fieldbus, 2-channel TMT85, head transmitter DIN B
		4B *3	FOUNDATION Fieldbus, TMT162
		4C *3	FOUNDATION Fieldbus, 2-channel TMT162
		5A	PROFIBUS PA, 2-channel TMT84, head transmitter DIN B
		5B *3	PROFIBUS PA, TMT162
		5C *3	PROFIBUS PA, 2-channel TMT162
		6B	PROFINET w. Ethernet-APL/SPE, TMT86, head transmitter DIN B
		6C	PROFINET w. Ethernet-APL/SPE, TMT86 SIL, conformity + PROFIsafe, head transmitter DIN B
		6U *5	IO-Link, 1-channel TMT36, head transmitter DIN B
		7A *4	HART, 1-channel TMT142
mm	Terminal Head;	A1 *2	TA30A comfort flip cover; Alu; IP66/68
	Material;	A2 *2	TA30A + display, comfort flip cover; Alu; IP66/68
	Protect. Class	D1 *2	TA30D comfort, high flip cover; Alu; IP66/68
		F1 *3	Dual chamber field housing; Alu; IP67 NEMA 4X, backlit display
		F2 *3	Dual chamber field housing; 316L; IP67 NEMA 4X, backlit display
		F3 *4	Single chamber field housing; Alu; IP67 NEMA 4X, backlit display
		F4 *4	Single chamber field housing; 316L; IP67 NEMA 4X, backlit display
		F5 *4	Single chamber field housing; Alu; IP67 NEMA 4X, w/o display
		F6 *4	Single chamber field housing; 316L; IP67 NEMA 4X, w/o display
		F7 *3	Dual chamber field housing; Alu; IP67 NEMA 4X, w/o display
		F8 *3	Dual chamber field housing; 316L; IP67 NEMA 4X, w/o display
		H1	TA30H Ex d/XP; 316L; IP66/68
		H2	TA30H Ex d/XP + display; 316L; IP66/68
		H3	TA30H Ex d/XP; Alu; IP66/68



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Suffix code	Explanation	Value	Explanation
		H4	TA30H Ex d/XP + display; Alu; IP66/68
		H5	TA30H field housing, display frontal; Alu; IP66/68
		H6	TA30H field housing, display frontal; 316; IP66/68
nn	Cable entry	A	1x thread M20x1.5
	Terminal head	B	1x thread NPT1/2
		D	2x thread M20x1.5
		E	2x thread NPT1/2
oo	Device Version:	n.s. *1	Not relevant for Explosion Safety
pp	Second Transmitter (mounted)		Not allowed
qq	Service	n.s. *1	Not relevant for Explosion Safety
rr	Test, Certificate, Declaration	n.s. *1	Not relevant for Explosion Safety
ss	Additional Approval	n.s. *1	Not relevant for Explosion Safety
tt	Additional Option	n.s. *1	Not relevant for Explosion Safety
uu	Accessory Mounted	n.s. *1	Not relevant for Explosion Safety
vv	Calibration Thermometer:	n.s. *1	Not relevant for Explosion Safety
ww	Calibration Points $\geq 0^{\circ}\text{C}$	n.s. *1	Not relevant for Explosion Safety
xx	Calibration-Points $\leq 0^{\circ}\text{C}$	n.s. *1	Not relevant for Explosion Safety
yy	Firmware Version	n.s. *1	Not relevant for Explosion Safety
zz	Marking	n.s. *1	Not relevant for Explosion Safety

*1 n.s. means the value is neither related to Explosion Safety nor in the scope.

*2 only possible when suffix code aa = CG

*3 part of field temperature transmitter TMT162

*4 part of field temperature transmitter TMT142

*5 not possible for non-incendive installation in Class I, Div.2.

TM152-aabccddeefgghijklmmnooppqqrrssttuuvvwxxyzzabacadae

Where

Suffix code	Explanation	Value	Explanation
aa	Approval	CF	CSA C/US XP, DIP I, II, III/1/A-G, I Z0/Z1 Ex d, Z20/21 Ex t
		CG	CSA C/US DIP II, III /1/E-G, Z20/21 Ex ta/tb
b	Thermowell	1	Thermometer to be assembled into existing thermowell
		A	ASME flanged, standard penetration
		B	ASME flanged, full penetration
		C	ASME, threaded
		D	ASME, weld in
		E	ASME, socket weld
		F	iTHERM TwistWell, flanged, standard penetration
		G	iTHERM TwistWell, flanged, full penetration
cc	Process/Thermowell Connection Size	n.s. *1	Not relevant for Explosion Safety
dd	Thermowell Diameter, Material	AA	W/o, insert 6mm, to be used with thermowell
		AB	W/o, insert 1/4", to be used with thermowell



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Suffix code	Explanation	Value	Explanation
		AE	316/316L
		AI	316/316L iTHERM TwistWell
		AJ	304/304L
		BA	Alloy600
		BB	AlloyC276
		CA	A182 F22
		CD	A182 F11
		CE	A182 F91
		DA	A105
		EA	Duplex S32205
		IB	316/316L + Tantalum sleeve
ee	Pressure Rating	n.s. *1	Not relevant for Explosion Safety
ff	Immersion Length U	n.s. *1	Not relevant for Explosion Safety
gg	Geometry Wetted Parts	A0	Not needed (without thermowell)
		A1	Straight, (complete length U)
		C1	Tapered, (complete length U)
		G1	Stepped, Re1=2-1/2"
		X1	... inch (0.25...16"), tapered (increments of 0.25")
		X2	... inch (0.25...16"), stepped (increments of 0.25")
		X3	... mm (2.5...29.5"), nozzle length
h	Lagging Length T	n.s. *1	Not relevant for Explosion Safety
ii	Removable Neck Length E	AA *2	1 inch nipple; SS
		AB *2	4 inch nipple-union-nipple; SS
		AC *2	7 inch nipple-union-nipple; SS
		AX *2	... Inch (≤20 inch, increment 0.5); SS
		BA	1.5 inch lamination nipple; SS
		BB	4 inch lamination nipple-union-nipple; SS
		BC	7 inch lamination nipple-union-nipple; SS
		BX	laminated... Inch (≤20 inch, increment 0.5); SS
j	Sensor Type;	B	1xPt100 WW; -200...+600°C; 316L
	Measuring Range;	C	2xPt100 WW; -200...+600°C; 316L
	Material	D	1xPt100 TF iTHERM StrongSens; -50...+500°C; 316L
		E	1xPt100 TF iTHERM QuickSens; -50...+200°C; 316L
		G *7	1xPt100 basic TF; -50...+200°C; 316L
		H *7	2xPt100 basic TF; -50...+200°C; 316L
		L	1xTC type J; max. +750°C; 316L
		M	2xTC type J; max. +750°C; 316L
		N	1xTC type K; max. +1100°C; Alloy600
		O	2xTC type K; max. +1100°C; Alloy600
		P	1xTC type N; max. +1100°C; Alloy600
		Q	2xTC type N; max. +1100°C; Alloy600
k	Sensor Standard; Classification	n.s. *1	Not relevant for Explosion Safety
ll	Electrical Connection	0A	Flying leads
		1A	Terminal block (only with terminal head A1, D1, H1 H3)



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Suffi x code	Explanation	Value	Explanation
		2C	4-20 mA, 1-channel TMT71, head transmitter DIN B
		2D *3	4-20 mA HART, TMT162
		2E *3	4-20mA HART, TMT162 SIL
		2F *3	4-20mA HART, 2-channel TMT162
		2G *3	4-20mA HART, 2-channel TMT162 SIL
		2H	4-20mA, 1-channel TMT31, PCP 0.15 K, head transmitter DIN B
		2I	4-20mA, 1-channel TMT31, PCP 0.1 K, head transmitter DIN B
		3A	HART, 1-channel TMT72, head transmitter DIN B
		3C	HART, 2-channel TMT82, head transmitter DIN B
		3D	HART, 2-channel TMT82, SIL head transmitter DIN B
		3F	4-20mA HART, 2-channel TMT82 SIL OIIML/MID for gas, head transmitter DIN B
		3I	4-20mA HART, 2-channel TMT82 SIL OIIML/MID for liquids, head transmitter DIN B
		4A	FOUNDATION Fieldbus, 2-channel TMT85, head transmitter DIN B
		4B *3	FOUNDATION Fieldbus, TMT162
		4C *3	FOUNDATION Fieldbus, 2-channel TMT162
		5A	PROFIBUS PA, 2-channel TMT84, head transmitter DIN B
		5B *3	PROFIBUS PA, TMT162
		5C *3	PROFIBUS PA, 2-channel TMT162
		6B	PROFINET w. Ethernet-APL/SPE, TMT86, head transmitter DIN B
		6C	PROFINET w. Ethernet-APL/SPE, TMT86 SIL, conformity + PROFIsafe, head transmitter DIN B
		6U *5	IO-Link, 1-channel TMT36, head transmitter DIN B
		7A *4	HART, 1-channel TMT142
mm	Terminal Head;	A1 *2	TA30A comfort flip cover; Alu; IP66/68
	Material;	A2 *2	TA30A + display, comfort flip cover; Alu; IP66/68
	Protect. Class	D1 *2	TA30D comfort, high flip cover; Alu; IP66/68
		F1 *3	Dual chamber field housing; Alu; IP67 NEMA 4X, backlit display
		F2 *3	Dual chamber field housing; 316L; IP67 NEMA 4X, backlit display
		F3 *4	Single chamber field housing; Alu; IP67 NEMA 4X, backlit display
		F4 *4	Single chamber field housing; 316L; IP67 NEMA 4X, backlit display
		F5 *4	Single chamber field housing; Alu; IP67 NEMA 4X, w/o display



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Suffi x code	Explanation	Value	Explanation
		F6 *4	Single chamber field housing; 316L; IP67 NEMA 4X, w/o display
		F7 *3	Dual chamber field housing; Alu; IP67 NEMA 4X, w/o display
		F8 *3	Dual chamber field housing; 316L; IP67 NEMA 4X, w/o display
		H1	TA30H Ex d/XP; 316L; IP66/68
		H2	TA30H Ex d/XP + display; 316L; IP66/68
		H3	TA30H Ex d/XP; Alu; IP66/68
		H4	TA30H Ex d/XP + display; Alu; IP66/68
		H5	TA30H field housing, display frontal; Alu; IP66/68
		H6	TA30H field housing, display frontal; 316; IP66/68
nn	Cable entry	A	1x M20x1.5 female thread
	Terminal head	B	1x NPT1/2 female thread
		E	2x NPT1/2 female thread
		F	1x NPT3/4 female thread
		G	2x NPT3/4 female thread
oo	Device Version:	n.s. *1	Not relevant for Explosion Safety
		AF	Lagging with spanner flats
		AK	Flange face FF, ANSI B16.5
		AL	Flange face RF, ANSI B16.5
		AM	Flange face RTJ, ANSI B16.5
		AQ	QuickSleeve for 6.5 mm / 0.26" bore
		AR	QuickSleeve for 7 mm bore
qq	Special Root Diameter D1 *6	CB	5/8"
		CE	3/4"
		CF	7/8"
		CI	1"
		CK	1-1/16"
		CM	1-1/8"
		CN	1-1/4"
		CO	1-3/8"
		CP	1-1/2"
		C9	... inch (5/8"...1-1/2")
rr	Special Tip Diameter D2 *6	DC	1/2"
		DE	5/8"
		DF	2/3"
		DH	3/4"
		DJ	7/8"
		DK	1"
		DL	1-1/8"
		DM	1-1/4"
		DN	1-3/8"
		DO	1-1/2"



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Suffix code	Explanation	Value	Explanation
		D9	... inch (1/2"...1-1/2")
ss	Special Bore Diameter Di ^{*6}	EB	6.35mm (0.256")
		EC	7mm (0.256")
		EE	6.61 mm (0.26") (standard)
		EF	9.78 mm (0.385")
tt	Second Transmitter (mounted)		Not allowed
uu	Service	n.s. ^{*1}	Not relevant for Explosion Safety
vv	Test, Certificate, Declaration	n.s. ^{*1}	Not relevant for Explosion Safety
ww	Additional Approval	n.s. ^{*1}	Not relevant for Explosion Safety
xx	Additional Option	n.s. ^{*1}	Not relevant for Explosion Safety
yy	Accessory Mounted	n.s. ^{*1}	Not relevant for Explosion Safety
zz	Calibration Thermometer:	n.s. ^{*1}	Not relevant for Explosion Safety
ab	Calibration Points $\geq 0^{\circ}\text{C}$	n.s. ^{*1}	Not relevant for Explosion Safety
ac	Calibration-Points $\leq 0^{\circ}\text{C}$	n.s. ^{*1}	Not relevant for Explosion Safety
ad	Firmware Version	n.s. ^{*1}	Not relevant for Explosion Safety
ae	Marking	n.s. ^{*1}	Not relevant for Explosion Safety

^{*1} n.s. means the value is neither related to Explosion Safety nor in the scope.

^{*2} only possible when suffix code aa = CG

^{*3} part of field temperature transmitter TMT162

^{*4} part of field temperature transmitter TMT142

^{*5} not possible for non-incendive installation in Class I, Div.2.

^{*6} optional feature

^{*7} only possible with Division marking

See Table 1a, 1b for Temperature Codes/Max Surface Temperature vs Ambient temperature for various Thermometer Models

Table 1a

T-class	TMI11, TM611, TMI12, TMI31, TMI51, TMI52		
	Ambient temperature range		
	With head transmitter TMT18x, TMT8x, TMT7x, TMT31	Without electronic or with terminal block	With assembled field transmitter TMT162, TMT142B*
T6/T85°C	$-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$
T5/T100°C	$-40^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
T4/T135°C	$-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_a \leq +120^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$

*The maximum ambient temperature for model TMT142B is limited to +70 °C for the display models

Table 1b



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Type	Insert diameter	T- class Max. surface	Process temperature range for assembled head transmitter TMT18x, TMT8x, TMT7x, TMT31 and TMT142B or with terminal block (P ≤ 50 mW)	Process temperature range for assembled field transmitter TMT162, TMT142*
TM111, TM611, TM112, TM131, TM151, TM152,	3mm, 3mm(dual) 6mm dual	T6/T85°C	-50°C ≤ Tp ≤ +66°C	-50°C ≤ Tp ≤ +64°C
		T5/T100°C	-50°C ≤ Tp ≤ +81°C	-50°C ≤ Tp ≤ +79°C
		T4/T135°C	-50°C ≤ Tp ≤ +116°C	-50°C ≤ Tp ≤ +114°C
		T3/T200°C	-50°C ≤ Tp ≤ +181°C	-50°C ≤ Tp ≤ +179°C
		T2/T300°C	-50°C ≤ Tp ≤ +276°C	-50°C ≤ Tp ≤ +279°C
		T1/T450°C	-50°C ≤ Tp ≤ +426°C	-50°C ≤ Tp ≤ +424°C
	6mm	T6/T85°C	-50°C ≤ Tp ≤ +73°C	-50°C ≤ Tp ≤ +71°C
		T5/T100°C	-50°C ≤ Tp ≤ +88°C	-50°C ≤ Tp ≤ +86°C
		T4/T135°C	-50°C ≤ Tp ≤ +123°C	-50°C ≤ Tp ≤ +121°C
		T3/T200°C	-50°C ≤ Tp ≤ +188°C	-50°C ≤ Tp ≤ +186°C
		T2/T300°C	-50°C ≤ Tp ≤ +283°C	-50°C ≤ Tp ≤ +286°C
		T1/T450°C	-50°C ≤ Tp ≤ +433°C	-50°C ≤ Tp ≤ +431°C

Ex ec IIC T6...T1 Gc

Class I Zone 2, AEx ec IIC T6...T1 Gc

Temperature sensor assemblies which consists of an enclosure with or without installed temperature transmitter and connected sensor.

- Model numbers iTHERM, type TM111, TM611, TM112, TM131, TM151, TM152 transmitters max. rated 9-36 Vdc, 23 mA max; sensor rated max. 50 mW; Install per Control drawing [10000010342](#) (XA01961T). Assembled per Thermometer Option Codes above and transmitter options below

Type	Assembled transmitter	T-class	Ambient temperature range housing
TM111, TM611, TM112, TM131, TM151, TM152	TMT31 (RTD)	T6	-40°C ≤ Ta ≤ +38°C
		T5	-40°C ≤ Ta ≤ +53°C
		T4	-40°C ≤ Ta ≤ +85°C
	TMT31 (TC)	T6	-40°C ≤ Ta ≤ +30°C
		T5	-40°C ≤ Ta ≤ +45°C
		T4	-40°C ≤ Ta ≤ +80°C
	TMT142B	T6	-40°C ≤ Ta ≤ +55°C
		T5	-40°C ≤ Ta ≤ +70°C
		T4	-40°C ≤ Ta ≤ +85°C
	TMT71, TMT72, TMT86	T6	-50°C ≤ Ta ≤ +55°C
		T5	-50°C ≤ Ta ≤ +70°C
		T4	-50°C ≤ Ta ≤ +85°C
	TMT7x, TMT8x with display	T6	-40°C ≤ Ta ≤ +55°C
		T5	-40°C ≤ Ta ≤ +70°C
		T4	-40°C ≤ Ta ≤ +85°C

Type	Insert diameter	T- class Max. surface	Process temperature range for assembled head transmitter TMT31, TMT71, TMT72, TMT86 and TMT142B or with terminal block (P ≤ 50 mW)
TM111,	3mm,	T6	-50°C ≤ Tp ≤ +66°C



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TM611, TM112, TM131, TM151, TM152	3mm(dual) 6mm dual	T5	$-50^{\circ}\text{C} \leq T_p \leq +81^{\circ}\text{C}$
		T4	$-50^{\circ}\text{C} \leq T_p \leq +116^{\circ}\text{C}$
		T3	$-50^{\circ}\text{C} \leq T_p \leq +181^{\circ}\text{C}$
		T2	$-50^{\circ}\text{C} \leq T_p \leq +276^{\circ}\text{C}$
		T1	$-50^{\circ}\text{C} \leq T_p \leq +426^{\circ}\text{C}$
	6mm	T6	$-50^{\circ}\text{C} \leq T_p \leq +73^{\circ}\text{C}$
		T5	$-50^{\circ}\text{C} \leq T_p \leq +88^{\circ}\text{C}$
		T4	$-50^{\circ}\text{C} \leq T_p \leq +123^{\circ}\text{C}$
		T3	$-50^{\circ}\text{C} \leq T_p \leq +188^{\circ}\text{C}$
		T2	$-50^{\circ}\text{C} \leq T_p \leq +283^{\circ}\text{C}$
		T1	$-50^{\circ}\text{C} \leq T_p \leq +433^{\circ}\text{C}$

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 US Standards

Class I, Div. 2, Groups A, B, C and D

Temperature sensor assemblies in type of protection Non-incendive which consists of an enclosure with or without installed temperature transmitter and connected sensor.

- Model numbers T13, T14, T53, T54, transmitter rated U_i/V_{max} (See Table 2), 23mA max.; sensor rated max. 50 mW; Install per- and refer for detailed ratings to Control dwg. 16 01 00 118, 10000011304.
May be assembled with the following certified enclosure and component options:
 - Enclosures TMT142 and TMT162, die cast aluminum or stainless steel 316, conduit entry size ½ inch NPT, assembled with spring loaded inserts/sensors TU111 and TU121 (Part no. H0316-03) and one or more components Part Nos. H0316-01, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (*) (**). Encl. Type 4X.
 - Enclosures Series TA30H, die cast aluminum or stainless steel 316, conduit entry sizes ½ inch or ¾ inch NPT assembled with spring loaded inserts/sensors TU111 and TU121 (Part no. H0316-03) and one or more components Part Nos. H0316-01, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (*). Encl. Type 4X.
- Model numbers T15, T55, transmitter rated U_i/V_{max} (See Table 2), 23mA max; sensor rated max. 50 mW; Install per- and refer for detailed ratings to Control dwg 16 01 00 117, 10000011304.
May be assembled with the following certified enclosure and component options:
 - Enclosures TMT142 and TMT162, die cast aluminum or stainless steel 316, conduit entry size ½ inch NPT, assembled with spring loaded inserts/sensors TU211 and TU221 (Part no. 16 01 00 240) and one or more sensors/components Part Nos. H0316-01 and G6 03 20 200. Encl. Type 4X.
 - Enclosures Series TA30H, die cast aluminum or stainless steel 316, conduit entry sizes ½ inch or ¾ inch NPT assembled with spring loaded inserts/sensors TU211 and TU221 (Part no. 16 01 00 240) and one or more sensors/components Part Nos. H0316-01 and G6 03 20 200. Encl. Type 4X.
- Model numbers iTHERM, type TM111, TM611, TM112, TM131, TM151, TM152 transmitters max. rated U_i/V_{max} (See Table 2), 23mA max; sensor rated max. 50 mW; Install per- and refer for detailed ratings to Control drawing 10000010342 (XA01961T).
Assembled per Thermometer Option Codes above and transmitter options below

Table 2

Transmitter type	Ui/Vmax	Ci	Li
TMT180	30V	144 nF	0
TMT82	35V	0	0
TMT71 and TMT72	30V	0	0
TMT142B	30V	5 nF	0
TMT162 HART	30V	5.3 nF	0
TMT162 PA/FF	35V	5 nF	10 µH
TMT84, TMT85	35V	5 nF	10 µH
Terminal block	Pi ≤ 50mW	See Table 3	
Flying leads	Pi ≤ 50mW	See Table 3	

Table 3

Sensor type	overall sensor length (IL)		Flying leads		Terminal block	
	Ci/m	Li/m	Ci	Li	Ci	Li
Single	200 pF	1 µF	56.4 pF	282 nH	4.6 pF	23 nF
Dual	400 pF	2 µF	113 pF	564 nH	9.2 pF	46 nF

Calculation formula for options with flying leads or terminal block only:

$$C_i = C_i \text{ overall sensor length IL} \times \text{IL} + C_i \text{ Flying leads}$$

$$L_i = L_i \text{ overall sensor length IL} \times \text{IL} + L_i \text{ Flying leads}$$

$$C_i = C_i \text{ overall sensor length IL} \times \text{IL} + C_i \text{ Terminal block}$$

$$L_i = L_i \text{ overall sensor length IL} \times \text{IL} + L_i \text{ Terminal block}$$

Type	Assembled transmitter	T-class	Ambient temperature range housing
TM111, TM611, TM112, TM131, TM151, TM152, T13, T14, T15, T53, T54; T55	TMT180	T6	-40°C ≤ Ta ≤ +50°C
		T5	-40°C ≤ Ta ≤ +65°C
		T4	-40°C ≤ Ta ≤ +85°C
	TMT181*, TMT182*, TMT84, TMT85, TMT162 PA/FF, TMT142* TMT142B**	T6	-40°C ≤ Ta ≤ +55°C
		T5	-40°C ≤ Ta ≤ +70°C
		T4	-40°C ≤ Ta ≤ +85°C
	TMT162 HART TMT71, TMT72, TMT86	T6	-50°C ≤ Ta ≤ +55°C
		T5	-50°C ≤ Ta ≤ +70°C
		T4	-50°C ≤ Ta ≤ +85°C
	TMT82	T6	-50°C ≤ Ta ≤ +58°C
		T5	-50°C ≤ Ta ≤ +75°C
		T4	-50°C ≤ Ta ≤ +85°C
	TMT7x, TMT8x with display	T6	-40°C ≤ Ta ≤ +55°C
		T5	-40°C ≤ Ta ≤ +70°C
		T4	-40°C ≤ Ta ≤ +85°C

*For models T13, T14, T15, T53, T54; T55 only

**The maximum ambient temperature for model TMT142B is limited to +70 °C for the display models



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Type	Insert diameter	T- class Max. surface	Process temperature range for assembled head transmitter TMI18x, TMI8x, TMI7x, TMI142B and TMI31 or with terminal block (P ≤ 50 mW)	Process temperature range for assembled field transmitter TMI162, TMI142*
TM111,	3mm,	T6	-50°C ≤ Tp ≤ +66°C	-50°C ≤ Tp ≤ +64°C
TM611,	3mm(dual)	T5	-50°C ≤ Tp ≤ +81°C	-50°C ≤ Tp ≤ +79°C
TM112,	6mm dual	T4	-50°C ≤ Tp ≤ +116°C	-50°C ≤ Tp ≤ +114°C
TM131,		T3	-50°C ≤ Tp ≤ +181°C	-50°C ≤ Tp ≤ +179°C
TM151,		T2	-50°C ≤ Tp ≤ +276°C	-50°C ≤ Tp ≤ +279°C
TM152,		T1	-50°C ≤ Tp ≤ +426°C	-50°C ≤ Tp ≤ +424°C
T13**,	6mm	T6	-50°C ≤ Tp ≤ +73°C	-50°C ≤ Tp ≤ +71°C
T14**,		T5	-50°C ≤ Tp ≤ +88°C	-50°C ≤ Tp ≤ +86°C
T15,		T4	-50°C ≤ Tp ≤ +123°C	-50°C ≤ Tp ≤ +121°C
T53**,		T3	-50°C ≤ Tp ≤ +188°C	-50°C ≤ Tp ≤ +186°C
T54**,		T2	-50°C ≤ Tp ≤ +283°C	-50°C ≤ Tp ≤ +286°C
T55		T1	-50°C ≤ Tp ≤ +433°C	-50°C ≤ Tp ≤ +431°C

*For models T13, T14, T15, T53, T54; T55 only

**Single Seal device for process temperature of -50°C to +130°C, MWP 2,500 psi (Only applicable to T13, T14, T53 and T54 temperature sensor assemblies).

Conditions of Acceptability:

- The device may only be powered by a power supply unit with a limited energy electric circuit in accordance with CAN/CSA-C22.2 No. 61010-1-12 / UL Std. No. 61010-1 (3rd Edition) chapter 6.3.2 and 9.4 or class 2 according to CSA 223/UL 1310.
- No evaluations of functional safety and performance characteristics have been performed.
- Equipment is only to be installed by trained personal in accordance to the installation, set-up, operation and maintenance.
- The following atmospheric conditions shall be guaranteed when the equipment is operated in hazardous locations:
 - ambient and process temperature as specified in the control drawings;
 - pressure 80 kPa (0,8 bar) to 110 kPa (1,1 bar); and
 - air with normal oxygen content, typically 21 % v/v.
- For the use as an equipment in Class I, Division 2 applications, the field transmitter shall not be connected or disconnected unless the area is known to be non-hazardous.
- If the field transmitter was used in a Class I, Division 2 application it is not allowed to use it in Class I, Division 1 applications in the future.
- Final acceptance of this equipment when installed is subject to the local Authorities Having Jurisdiction.
- The end user shall ensure appropriate earthing of the metallic field housing upon installation.
- All conduits must be assembled with a minimum of five full threads engagement
- For Class II i.e. Dust application, use dust tight seals.

- For Zone 1 (Ex db), Zone 21 (Ex tb), the following Conditions apply

General

- The flameproof joints are not intended to be repaired.
- It shall be verified, taking into account the worst case process and ambient temperatures:
 - that the temperature of the enclosure at the process connection point does not exceed the ambient temperature range of the assembly.
 - that the temperature of the optionally used RB**INS Union XP does is not outside the service temperature range: -50°C to +150°C



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3. that the temperature of the optionally used Sensor Type TS21x with quickneck construction does not exceed the service temperature range of -50°C to +120°C
4. that the temperature of optional seal at connection points does not exceed the service temperature range as listed -50°C to +130°C
5. that the temperature of the thermowells type TT151 for TM151 and TT152 for TM152 does not exceed the service temperature range as listed below for the listed materials.

Thermowell for Type TM151		Thermowell for Type TM152	
Material	Service Temperature range	Material	Service Temperature range
10CrMo9-10	-20°C to +625°C	A182 F11	-30 °C to +450°C
13CrMo4-5	-30 °C to +555°C	A182 F22	-20 °C to +450°C
16Mo3	-10 °C to +530°C	A192 F91	-10 °C to +450°C
A105	-10 °C to +480°C	A 105	-10 °C to +450°C
P355NH	-20 °C to +500°C	DuplexS32205	-46 °C to +316°C
DuplexS32205	-46 °C to +316°C		

- Temperature assemblies with flying leads (type TM111 suffix code h = 0A, type TM112 suffix code h= 0A, type TM131 suffix code l = 0A, type TM151 suffix code l = 0A, type TM152 suffix code l = 0A) shall be provided with a round transmitter of max. 2.2 W with a main diameter not exceeding 45 mm and a sensor signal of max 10 Vdc and 1 mA.
- The connection fittings, their joints, and their joints with the thermowell and the connection head or field temperature transmitter provide ingress protection of IP6x or, alternatively, (when fitted with at least 5 turns of PTFE tape or Loctite 270 spread on the entire circumference and for at least one thread) in the temperature range of -50 °C to +130 °C according to IEC/CSA C22.2 No/UL 60079-0 and IEC 60529.
- Sensors with quicksleeve construction shall always be protected by a metallic thermowell

Type TM111

- Sensors with a diameter of 3 mm (suffix code b = A) shall be protected by a thermowell. Type TM112 Sensors with a diameter of 3 mm (suffix code b = M), 1/8" (suffix code b = A) shall be protected by a thermowell.

Type TM131, TM151 and TM152

- The sensor shall be protected by the thermowell provided with the equipment or by a thermowell as specified in the instructions.

Type TM152

The Union GP shall be tightened with a torque of 80 Nm minimum

TM611

For maximum surface temperature, ambient temperature range and maximum process temperatures see Annex 1 and safety instructions.

It shall be verified, taking into account the worst case process and ambient temperatures:

- that the temperature of the enclosure at the process connection point does not exceed the ambient temperature range of the assembly
- that the temperature of the used TT611 coupling element does not exceed the service temperature range as listed in Annex 1

Temperature assemblies with flying leads (type TM611 suffix code g = 0A) shall be provided with a round transmitter of max. 2.2 W with a main diameter not exceeding 45 mm and a sensor signal of max 10 Vdc and 1 mA.

APPLICABLE REQUIREMENTS

Standards Used	Description
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Standards Used	Description
CSA C22.2 No. 25:17 - Fourth Edition	Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations
CSA C22.2 No. 30-20 - Fourth edition	Explosion-proof equipment
CSA C22.2 No. 94.2:15 - Second Edition	Enclosures for electrical equipment, environmental considerations
CSA C22.2 No. 213-17 -Third Edition	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified Locations)
ANSI/UL 121201:2017 - Ninth Edition	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
ANSI/ISA 12.27.01:2003	Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids
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 3600:2018	Electrical Equipment for Use in Hazardous (Classified) Locations - General Requirements
FM 3611:2004	Nonincendive Electrical Equipment for Use in Class I and II, Division 2, and Class III, Divisions 1 and 2, Hazardous (Classified) Locations
FM 3615 : 2018	Explosionproof Electrical Equipment – General Requirements
FM 3616:2011	Dust-Ignitionproof Electrical Equipment General Requirements
UL 61010-1:2012 - Third Edition - Including revisions through November 21, 2018	Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements
UL 50E:2015 - Second Edition	UL Standard for Safety Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA C22.2 No. 60079-0:19	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. 60079-7:16 - Second Edition	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
CSA C22.2 No. 60079-31:15 - Second Edition	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
ANSI/UL 60079-0:2019 - Seventh Edition	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-1:2015 - Seventh Edition	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
UL 60079-7:2017 - Fifth Edition	Explosive Atmospheres - Part 7: Equipment Protection by Increased Safety 'e'
ANSI/UL 60079-31:2015 - Second Edition	Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”



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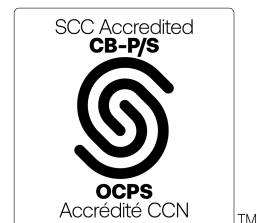
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Notes:

Products certified under Class(es) C225802, C225803, C225882, C225883 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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Master Contract: 200600

*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
80260707	2026-07-21	a. Update to cCSAus report 1733312 to re-organize the PRODUCTS Section to align with IECEx approvals. Class numbers to be corrected. b. Add Zone markings to the report based on acceptance of external ExTRs.
80260575	2025-09-30	FIR follow-up: Update of Certificate 1733312 to address issues noted in FC# 227189, FIR dated Jan. 29, 2025.
80210780	2025-02-14	The scope of this project is : a) To add the component certificate CSA 80158028 for TA30x b) Add an optional temperature assembly for type TM131 with new thermowell c) Addition of temperature assemblies type TM112, TM151 and TM152 d) Implementation of the temperature assembly, type TM611, consisting of a thermometer, type TM111, assembled with a coupling element, type TT61 e) Update the standards per CSA Certification Notice 35, 28 and 38
80132854	2022-12-19	Update to Report 1733312 to add alternative transmitter components models TMT31 and TMT86.
80062682	2021-03-29	Update to Report 1733312 for implementation of the CSA certified transmitter, type TMT142 HART7. Introduce the TMT71 and TMT72 models as Non-Incendive option with Models TM111 and TM131 and as option L for the Txx-series.
80032559	2020-02-18	Update to Report 1733312 to implement head transmitter type TMT7x to models T13, T14, T15, T53, T54, T55 for Class I, II, III, Div. 1 and to update existing control and name plate drawings based on former evaluation. In addition, to include the TA30A and TA30D enclosures with type 4X rating and in combination with TM111 and TM131.
70192958	2019-09-16	Update to Report 1733312 to include the cCSAus certification of RTD temperature sensor assemblies, models TM111-*** and TM131-*** Class I, Div.1, Groups A, B, C and D; Class II, Div.1, Groups E, F and G; Class III; Class I, Div. 2, Groups A, B, C and D



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2428685	2012-01-25	Update to Report 1733312 to include Single Seal Device markings.
2450362	2011-11-18	Update to Report 1733312 to include Connector Head, Type TA30H.
2214843	2010-04-09	Update to Report 1733312 to include Terminal Head TA30H with KEMA test report 211363800/3.
1808922	2006-06-27	Update to Report 1733312 to include Div. 1 marking and minor report revision.
1796587	2006-06-14	Update to Report 1733312 to include Non-Incendive certification.
1766033	2006-03-28	Update to Report 1733312 to include Div. 2 and Ordinary locations referenced from existing submitter's reports.
1733312	2005-12-16	Original Certification of Temperature sensor assemblies for Class 1 Groups A, B, C, & D; Class II, Groups E,F & G; Class III Hazardous locations.