



# Certificate of Compliance

<b>Certificate:</b>	1733312	<b>Master Contract:</b>	200600
<b>Project:</b>	80260575	<b>Date Issued:</b>	2025-09-30
<b>Issued to:</b>	<b>Endress+Hauser Wetzler GmbH Co. KG Obere Wank 1 Nesselwang, Bavaria 87484 Germany</b>	<b>Issued by:</b>	<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 03 PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations  
Class 2258 82 PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards  
Class 2258 83 PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - Certified to US Standards

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

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

**Enclosures, die cast aluminum or stainless steel, with reducer H0310-01, assembled with one or more sensors / components  
Part Nos. H0316-01, H0316-03, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (\*)**



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Model(s)	Conduit Size	Enclosure Type
Series 215804, Series 215805, Series 215807, Series 215808	½ inch, ¾ inch NPT or ¾ inch NPT	4X

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

(\*\*) Note: All conduits must be sealed within 18 in for enclosure TA30H.

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

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

Model(s)
T13, T14, TU111, TUI21, TMI11, TM611, TM112

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, TU111 and TUI21, 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:

- Enclosures TMT142 and TMT162, die cast aluminum or stainless steel, conduit entry size ½ inch NPT, assembled with one or more sensors/components Part Nos. H0316-01, H0316-03, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (\*) (\*\*). Encl. Type 4X.
- Enclosures Series 215804, 215805, 215807, 215808 and TA30H(\*\*), die cast aluminum, conduit entry sizes ½ inch, ¾ inch NPT or ¾ inch NPT with reducer H0310-01, assembled with one or more sensors / components Part Nos. H0316-01, H0316-03, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204(\*). Encl. Type 4X.

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

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

- 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](#)

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



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- Enclosures 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
- (Additionally for TM112) Enclosures TMT142 or TMT162, die cast aluminum, conduit entry size ½ inch NPT or M20x1.5, assembled with one or dual sensors; Encl. Type 4X; IP66/67

(\*\*) Note: All conduits must be sealed within 18 in for enclosures TA30H.

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

T-class	TM111, <u>TM611</u> , <u>TM112</u> , T13, T14, T53, T54		
	Ambient temperature range		
	With head transmitter TMT18x, TMT8x, TMT7x, TMT31	Without electronic or with terminal block	With assembled field transmitter TMT162, TMT142*, TMT142B**
T6/T85°C	-40°C ≤ Ta ≤ +65°C	-50°C ≤ Ta ≤ +70°C	-40°C ≤ Ta ≤ +55°C
T5/T100°C	-40°C ≤ Ta ≤ +80°C	-50°C ≤ Ta ≤ +80°C	-40°C ≤ Ta ≤ +70°C
T4/T135°C	-40°C ≤ Ta ≤ +85°C	-50°C ≤ Ta ≤ +120°C	-40°C ≤ Ta ≤ +85°C

\*For models T13, T14, T53, T54 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, TMI31 and TMI142B or with terminal block (P ≤ 50 mW)	Process temperature range for assembled field transmitter TMI162, TMI142*
TM111, <u>TM611</u> , <u>TM112</u> T13**, T14**, T53**, T54**	3mm,	T6/T85°C	-50°C ≤ Tp ≤ +66°C	-50°C ≤ Tp ≤ +64°C
	3mm(dual)			
	6mm dual	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



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\*For models T13, T14, T53, T54 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)

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

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

Model(s)
TU111, TU121, TU211, TU221, TM161

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

- Model numbers T13, T14, T53, T54, TU111 and TU121, transmitter rated 10...42Vdc, 3 W 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, conduit entry size ½ inch NPT, assembled with one or more sensors/components Part Nos. H0316-01, H0316-03, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (\*) (\*\*). Encl. Type 4X.
- Enclosures Series 215804, 215805, 215807, 215808 and TA30H, die cast aluminum, conduit entry sizes ½ inch, ¾ inch NPT or ¾ inch NPT with reducer H0310-01, assembled with one or more sensors/components Part Nos. H0316-01, H0316-03, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (\*). Encl. Type 4X.
- Model numbers T15, T55, TU211 and TU221, transmitter rated 10...42Vdc, 3 W 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, conduit entry size ½ inch NPT, assembled with one or more sensors/components Part Nos. 16 01 00 240, H0316-01 and G6 03 20 200. Encl. Type 4X.
- Enclosures Series 210804, 210805, 210807, 215808 and TA30H, die cast aluminum or stainless steel 316, conduit entry sizes ½ inch, ¾ inch NPT or ¾ inch NPT with reducer bushing H0310-01, assembled with one or more sensors/components Part Nos. 16 01 00 240, H0316-01 and G6 03 20 200. Encl. Type 4X.
- Model numbers iTHERM, type TM111, ~~TM611~~, ~~TM112~~, TM131, ~~TM151~~, ~~TM152~~ transmitter max. rated 10...40 Vdc, 3 W max; sensor rated max. 50 mW; Install per- and refer for detailed ratings to Control drawing [10000010342](#).

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

- (~~TM112~~, ~~TM131~~, ~~TM151~~, ~~TM152~~ only) with Enclosures 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
- Enclosures Series TA30H, TA30A or TA30D, die cast aluminum or stainless steel, conduit entry sizes ½ inch NPT or



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M20x1.5, assembled with one or dual sensors; Encl. Type 4X; IP66/67

Type	Assembled transmitter	T-class	Ambient temperature range housing
TM111, <u>TM611,</u> <u>TM112,</u> TM131, <u>TM151,</u> <u>TM152,</u>	TMT180	T6	$-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$
		T5	$-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$
		T4	$-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$
T13, T14, T15, T53, T54; T55	TMT31	T6	$-40^{\circ}\text{C} \leq T_a \leq +38^{\circ}\text{C}$
		T5	$-40^{\circ}\text{C} \leq T_a \leq +53^{\circ}\text{C}$
		T4	$-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$
	TMT181*, TMT182*, TMT84, TMT85, TMT162 PA/FF, TMT142*  TMT142B**  TMT71/72	T6	$-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$
		T5	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
		T4	$-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$
	TMT162 HART	T6	$-50^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$
		T5	$-50^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
		T4	$-50^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$



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	TMT82	T6	$-50^{\circ}\text{C} \leq \text{Ta} \leq +58^{\circ}\text{C}$
		T5	$-50^{\circ}\text{C} \leq \text{Ta} \leq +75^{\circ}\text{C}$
		T4	$-50^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$
	TMT8x with display	T6	$-40^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$
		T5	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
		T4	$-40^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$

\*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

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/T85°C	$-50^{\circ}\text{C} \leq \text{Tp} \leq +66^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq \text{Tp} \leq +64^{\circ}\text{C}$
TM611,	3mm(dual)	T5/T100°C	$-50^{\circ}\text{C} \leq \text{Tp} \leq +81^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq \text{Tp} \leq +79^{\circ}\text{C}$
<del>TM112</del> , TM131,	6mm dual			
<del>TM151</del> ,				
<del>TM152</del> ,				
T13**, T14**, T15, T53**, T54**;				
T55		T4/T135°C	$-50^{\circ}\text{C} \leq \text{Tp} \leq +116^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq \text{Tp} \leq +114^{\circ}\text{C}$
		T3/T200°C	$-50^{\circ}\text{C} \leq \text{Tp} \leq +181^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq \text{Tp} \leq +179^{\circ}\text{C}$



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		T2/T300°C	$-50^{\circ}\text{C} \leq T_p \leq +276^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +279^{\circ}\text{C}$
		T1/T450°C	$-50^{\circ}\text{C} \leq T_p \leq +426^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +424^{\circ}\text{C}$
	6mm	T6/T85°C	$-50^{\circ}\text{C} \leq T_p \leq +73^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +71^{\circ}\text{C}$
		T5/T100°C	$-50^{\circ}\text{C} \leq T_p \leq +88^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +86^{\circ}\text{C}$
		T4/T135°C	$-50^{\circ}\text{C} \leq T_p \leq +123^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +121^{\circ}\text{C}$
		T3/T200°C	$-50^{\circ}\text{C} \leq T_p \leq +188^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +186^{\circ}\text{C}$
		T2/T300°C	$-50^{\circ}\text{C} \leq T_p \leq +283^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +286^{\circ}\text{C}$
		T1/T450°C	$-50^{\circ}\text{C} \leq T_p \leq +433^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +431^{\circ}\text{C}$

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

\*\*Single Seal device for process temperature of  $-50^{\circ}\text{C}$  to  $+130^{\circ}\text{C}$ , MWP 2,500 psi (Only applicable to T13, T14, T53 and T54 temperature sensor assemblies).

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

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

Model(s)
TM161

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

- Model numbers (Approval code ‘L’) T13, T14, T53, T54 with TMT71/72 ,TMT142B or TMT31 transmitter rated 10... 36Vdc, 3 W max.; Install per- and refer for detailed ratings to Control dwg. 10000011304.

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



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- Enclosures TMT142 and TMT162, die cast aluminum or stainless steel, conduit entry size ½ inch NPT, assembled with one or more sensors/components Part Nos. H0316-01, H0316-03, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (\*) (\*\*). Encl. Type 4X.
- Enclosures Series 215804, 215805, 215807, 215808 and TA30H, die cast aluminum, conduit entry sizes ½ inch, ¾ inch NPT or ¾ inch NPT with reducer H0310-01, assembled with one or more sensors/components Part Nos. H0316-01, H0316-03, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (\*). Encl. Type 4X.
- Model numbers T15, T55 with TMT71/72 ,TMT142B or TMT31 transmitter rated 10...36Vdc, 3 W max.; Install per- and refer for detailed ratings to Control dwg 10000011304.

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

- Enclosures TMT142 and TMT162, die cast aluminum or stainless steel, conduit entry size ½ inch NPT, assembled with one or more sensors/components Part Nos. 16 01 00 240, H0316-01 and G6 03 20 200. Encl. Type 4X.
- Enclosures Series 210804, 210805, 210807, 215808 and TA30H, die cast aluminum or stainless steel 316, conduit entry sizes ½ inch, ¾ inch NPT or ¾ inch NPT with reducer bushing H0310-01, assembled with one or more sensors/components Part Nos. 16 01 00 240, H0316-01 and G6 03 20 200. Encl. Type 4X.

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

- Model numbers iTHERM, type TM111, TM611, TM112, TM131, TM151 and TM152 transmitters max. rated 10...40 Vdc, 3 W max; sensor rated max. 50 mW; Install per- and refer for detailed ratings to Control drawing [10000010342](#).

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

- (TM112, TM131, TM151, TM152 only) with Enclosures TMT142, 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
- Enclosures Series TA30H, 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

Type	Assembled transmitter	T-class	Ambient temperature range housing
TM111, <u>TM611</u> ,	TMT180	T6	-40°C ≤ Ta ≤ +50°C
<u>TM112</u> ,		T5	-40°C ≤ Ta ≤ +65°C
TM131,			



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<u>TM151,</u> <u>TM152,</u> T13*, T14*, T15*, T53*, T54*, T55*		T4	$-40^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$
	TMT31	T6	$-40^{\circ}\text{C} \leq \text{Ta} \leq +38^{\circ}\text{C}$
		T5	$-40^{\circ}\text{C} \leq \text{Ta} \leq +53^{\circ}\text{C}$
		T4	$-40^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$
	TMT84, TMT85, TMT162 PA/FF TMT142B TMT71/72	T6	$-40^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$
		T5	$-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
		T4	$-40^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$
	TMT162 HART	T6	$-50^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$
		T5	$-50^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$
		T4	$-50^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$
	TMT82	T6	$-50^{\circ}\text{C} \leq \text{Ta} \leq +58^{\circ}\text{C}$
		T5	$-50^{\circ}\text{C} \leq \text{Ta} \leq +75^{\circ}\text{C}$
T4		$-50^{\circ}\text{C} \leq \text{Ta} \leq +85^{\circ}\text{C}$	
TMT8x with display (but not TMT86)	T6	$-40^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$	



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		T5	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
		T4	$-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$

\*Models T13, T14, T15, T53, T54; T55 are only valid with TMT71/72 ,TMT142B and TMT31

Type	Insert diameter	T- class Max. surface	Process temperature range for assembled head transmitter TMI180, TMI8x, TMI7x, TMI142B and TMI31 or with terminal block (P ≤ 50 mW)	Process temperature range for assembled field transmitter TMI162
TM111, <del>TM611</del>	3mm, 3mm(dual)	T6/T85°C	$-50^{\circ}\text{C} \leq T_p \leq +66^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +64^{\circ}\text{C}$
<del>TM112</del> TM131, <del>TM151</del> <del>TM152</del>	6mm dual	T5/T100°C	$-50^{\circ}\text{C} \leq T_p \leq +81^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +79^{\circ}\text{C}$
T13*, T14*, T15*, T53*, T54*, T55*		T4/T135°C	$-50^{\circ}\text{C} \leq T_p \leq +116^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +114^{\circ}\text{C}$
		T3/T200°C	$-50^{\circ}\text{C} \leq T_p \leq +181^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +179^{\circ}\text{C}$
		T2/T300°C	$-50^{\circ}\text{C} \leq T_p \leq +276^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +279^{\circ}\text{C}$
		T1/T450°C	$-50^{\circ}\text{C} \leq T_p \leq +426^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +424^{\circ}\text{C}$
	6mm	T6/T85°C	$-50^{\circ}\text{C} \leq T_p \leq +73^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +71^{\circ}\text{C}$
		T5/T100°C	$-50^{\circ}\text{C} \leq T_p \leq +88^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +86^{\circ}\text{C}$



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	T4/T135°C	$-50^{\circ}\text{C} \leq T_p \leq +123^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +121^{\circ}\text{C}$
	T3/T200°C	$-50^{\circ}\text{C} \leq T_p \leq +188^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +186^{\circ}\text{C}$
	T2/T300°C	$-50^{\circ}\text{C} \leq T_p \leq +283^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +286^{\circ}\text{C}$
	T1/T450°C	$-50^{\circ}\text{C} \leq T_p \leq +433^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +431^{\circ}\text{C}$

\*Models T13, T14, T15, T53, T54; T55 are only valid with TMT71/72 ,TMT142B and TMT31

**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.

Class I, Div. 1, Groups B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1

Model(s)
T15, TU211, TU221, TM131, TM151, TM152

- Model numbers T15, T55, TU211 and TU221, 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:



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- Enclosures TMT142 and TMT162, die cast aluminum or stainless steel, conduit entry size ½ inch NPT, assembled with one or more sensors/components Part Nos. 16 01 00 240, H0316-01 and G6 03 20 200. Encl. Type 4X.

- Enclosures Series 210804, 210805, 210807, 210808 and TA30H, die cast aluminum or stainless steel 316, conduit entry sizes ½ inch, ¾ inch NPT or ¾ inch NPT with reducer bushing H0310-01, assembled with one or more sensors/components Part Nos. 16 01 00 240, H0316-01 and G6 03 20 200. Encl. Type 4X.

Note: All conduits must be sealed within 18 in for enclosures TMT142, TMT162 and TA30H.

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

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

- Enclosures 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

- Enclosures 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: All conduits must be sealed within 18 in for enclosures TMT142, TMT162 and TA30H.

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

T-class	TM131, <b>TM151</b> , <b>TM152</b> , T15, T55		
	Ambient temperature range		
	With head transmitter TMT18x, TMT8x, TMT7x and TMT31	Without electronic or with terminal block	With field transmitter TMT162, TMT142*, TMT142B**
T6/T85°C	-40°C ≤ Ta ≤ +65°C	-50°C ≤ Ta ≤ +70°C	-40°C ≤ Ta ≤ +55°C
T5/T100°C	-40°C ≤ Ta ≤ +80°C	-50°C ≤ Ta ≤ +80°C	-40°C ≤ Ta ≤ +70°C
T4/T135°C	-40°C ≤ Ta ≤ +85°C	-50°C ≤ Ta ≤ +120°C	-40°C ≤ Ta ≤ +85°C

\*For models T15, 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, TMI31 and TMI142B or with terminal block ( $P \leq 50$ mW)	Process temperature range for assembled field transmitter TMI162, TMI142*
TM131, <u>TM151</u> , <u>TM152</u> , T15, T55	3mm,	T6/T85°C	$-50^{\circ}\text{C} \leq T_p \leq +66^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +64^{\circ}\text{C}$
	3mm(dual)			
	6mm dual	T5/T100°C	$-50^{\circ}\text{C} \leq T_p \leq +81^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +79^{\circ}\text{C}$
		T4/T135°C	$-50^{\circ}\text{C} \leq T_p \leq +116^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +114^{\circ}\text{C}$
		T3/T200°C	$-50^{\circ}\text{C} \leq T_p \leq +181^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +179^{\circ}\text{C}$
		T2/T300°C	$-50^{\circ}\text{C} \leq T_p \leq +276^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +279^{\circ}\text{C}$
		T1/T450°C	$-50^{\circ}\text{C} \leq T_p \leq +426^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +424^{\circ}\text{C}$
6mm		T6/T85°C	$-50^{\circ}\text{C} \leq T_p \leq +73^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +71^{\circ}\text{C}$
		T5/T100°C	$-50^{\circ}\text{C} \leq T_p \leq +88^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +86^{\circ}\text{C}$
		T4/T135°C	$-50^{\circ}\text{C} \leq T_p \leq +123^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +121^{\circ}\text{C}$
		T3/T200°C	$-50^{\circ}\text{C} \leq T_p \leq +188^{\circ}\text{C}$	$-50^{\circ}\text{C} \leq T_p \leq +186^{\circ}\text{C}$



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	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 T15, T55 only

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

**Temperature sensor assemblies**

Model(s)
T53, T54, TU111, TU121

Model Numbers T13, T14, T53, T54, TU111 and TU121 supplied without temperature transmitter having temperature class T6, at Ta = -50°C to + 80°C; T5, at Ta = -50°C to + 95°C; and T4, at Ta = -50°C to + 100°C; or with temperature transmitter rated 11 - 42Vdc, 2.2W max. having temperature class T6, at Ta = -40°C to + 70°C; T5, at Ta = -40°C to + 80°C; and T4, at Ta = -40°C to + 85°C. MWP 2,500 psi; Single Seal device for process temperature of -50°C to +130°C (Only applicable to T13, T14, T53 and T54 temperature sensor assemblies). Install per Control dwgs 16 01 00 116 and 16 01 00 118.

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

- Enclosures TMT142 and TMT162, die cast aluminum or stainless steel, conduit entry size ½ inch NPT, assembled with one or more sensors/components Part Nos. H0316-01, H0316-03, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (\*) (\*\*). Encl. Type 4X.- Enclosures Series 215804, 215805, 215807, 215808 and TA30H(\*\*), die cast aluminum, conduit entry sizes ½ inch, ¾ inch NPT or ¾ inch NPT with reducer H0310-01, assembled with one or more sensors/components Part Nos. H0316-01, H0316-03, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (\*). Encl. Type 4X.

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

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

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

Model(s)
T55, TU211, TU221

- Model Numbers T15, T55, TU211 and TU221 supplied without temperature transmitter having temperature class T6, at Ta = - 50°C to + 80°C; T5, at Ta = -50°C to + 95°C; and T4, at Ta = -50°C to + 100°C; or with temperature transmitter rated 11...42Vdc, 2.2W max. having temperature class T6, at Ta = -40°C to + 70°C; T5, at Ta = -40°C to + 80°C; and T4, at Ta = -40°C to + 85°C. Install per Control dwg 16 01 00 115 and 16 01 00 117. 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, conduit entry size ½ inch NPT, assembled with one or more sensors/components Part Nos.

16 01 00 240, H0316-01 and G6 03 20 200. Encl. Type 4X.

- Enclosures Series 210804, 210805, 210807, 210808 and TA30H, die cast aluminum or stainless steel 316, conduit entry sizes ½ inch, ¾ inch NPT or ¾ inch NPT with reducer bushing H0310- 01, assembled with one or more sensors/components Part Nos. 16 01 00 240, H0316-01 and G6 03 20 200. Encl. Type 4X.

Note: All conduits must be sealed within 18 in for enclosures TMT142, TMT162 and TA30H.

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(s)
TU111, TU121

Model numbers T13, T14, T53, T54, TU111 and TU121, 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:

- Enclosures TMT142 and TMT162, die cast aluminum or stainless steel, conduit entry size ½ inch NPT, assembled with one or more sensors/components Part Nos. H0316-01, H0316-03, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (\*) (\*\*). Encl. Type 4X.
- Enclosures Series 215804, 215805, 215807, 215808 and TA30H(\*\*), die cast aluminum, conduit entry sizes ½ inch, ¾ inch NPT or ¾ inch NPT with reducer H0310-01, assembled with one or more sensors / components Part Nos. H0316-01, H0316-03, H0316-04, H0324-01, G60100201, G60100202, G60100203, G60100204 (\*). Encl. Type 4X.

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

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

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

**Model numbers T15, T55, TU211 and TU221, 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.**

Model(s)
TU211, TU221

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

- Enclosures TMT142 and TMT162, die cast aluminum or stainless steel, conduit entry size ½ inch NPT, assembled with one or more sensors/components Part Nos. 16 01 00 240, H0316-01 and G6 03 20 200. Encl. Type 4X.



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- Enclosures Series 210804, 210805, 210807, 210808 and TA30H, die cast aluminum or stainless steel 316, conduit entry sizes ½ inch, ¾ inch NPT or ¾ inch NPT with reducer bushing H0310-01, assembled with one or more sensors/components Part Nos. 16 01 00 240, H0316-01 and G6 03 20 200. Encl. Type 4X.

Note: All conduits must be sealed within 18 in for enclosures TMT142, TMT162 and TA30H.

### **APPLICABLE REQUIREMENTS**

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 - UL Standard for Safety 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 3rd ed (Rev. Nov 21, 2018) - UL Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements - Third Edition; Including Revisions through November 21, 2018

UL 50E:2015 - Second Edition - UL Standard for Safety Enclosures for Electrical Equipment, Environmental Considerations



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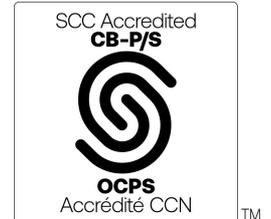
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Notes:

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](http://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**

<b>Project</b>	<b>Date</b>	<b>Description</b>
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
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.



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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.