



# Certificate of Compliance

**Certificate:** 1807522

**Master Contract:** 190113

**Project:** 1948816

**Date Issued:** 2007/12/11

**Issued to:** ABB Automation Products GmbH

Borsigstrasse 2  
Alzenau, 63755  
Germany  
Attention: Mr. Klaus Zeiger

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



**Issued by:** Ron Wildish

**Authorized by:** Peter Schimmoeller, Manager  
of Certification Services

## **PRODUCTS**

**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, Div. 1; Type 4X:

Model TTF300-R3xxHx Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; Temp. Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; Temp. Code T6 @ Max Ambient 56 Deg C.

**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; Class II, Div. 2, Groups E, F and G; Class III, Div. 2; Type 4X:

Model TTF300-R2xxHx Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; mounted in Div. 2



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location and providing nonincendive circuits for Class I, Div. 2, to thermocouples, RTD's and passive-resistive switch devices, when installed per installation Dwg. 214827; Temp. Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; Temp. Code T6 @ Max Ambient 56 Deg C.

Class I, Div 2, Groups A, B, C and D; Type 4X:

Model TTF300-R2xxHx Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; non-incendive (terminals "+" and "-") with Entity input parameters of:  $V_{max}/U_i = 30V$ ,  $I_{max}/I_i = 130mA$ ,  $P_{max}/P_i = 0.8 W$ ,  $C_i = 5 nF$ ,  $L_i = 0.5 mH$ ; having output terminals (terminals 1-2-3-4-5-6) with entity output parameters of:  $V_{oc}/U_o = 6.5V$ ,  $I_{sc}/I_o = 25 mA$ ,  $P_o = 38 mW$ ,  $C_a/C_o = 1.55 \mu F$ ,  $L_a/L_o = 5.0 mH$ ; and having output terminals (terminals JP1) with entity output parameters of:  $V_{oc}/U_o = 6.2 V$ ,  $I_{sc}/I_o = 65.2 mA$ ,  $P_o = 101 mW$ ,  $C_a/C_o = 1.4 \mu F$ ,  $L_a/L_o = 5.0 mH$ ; when installed per installation Dwg. 214895; T-Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; T-Code T6 @ Max Ambient 56 Deg C.

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

Model TTH300-R2H Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; mounted in Div. 2 location and providing nonincendive circuits for Class I, Div. 2, to thermocouples, RTD's and passive-resistive switch devices, when installed per installation Dwg. 214824; Temp. Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; Temp. Code T6 @ Max Ambient 56 Deg C.

Model TTH200-R2H Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; mounted in Div. 2 location and providing nonincendive circuits for Class I, Div. 2, to thermocouples, RTD's and passive-resistive switch devices, when installed per installation Dwg. TTH200-R2H(1); Temp. Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; Temp. Code T6 @ Max Ambient 56 Deg C.

Model TTH300-R2H Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; non-incendive (terminals "+" and "-") with Entity input parameters of:  $V_{max}/U_i = 30V$ ,  $I_{max}/I_i = 130mA$ ,  $P_{max}/P_i = 0.8 W$ ,  $C_i = 5 nF$ ,  $L_i = 0.5 mH$ ; having output terminals (terminals 1-2-3-4-5-6) with entity output parameters of:  $V_{oc}/U_o = 6.5V$ ,  $I_{sc}/I_o = 25 mA$ ,  $P_o = 38 mW$ ,  $C_a/C_o = 1.55 \mu F$ ,  $L_a/L_o = 5.0 mH$ ; and having output terminals (terminals JP1) with entity output parameters of:  $V_{oc}/U_o = 6.2 V$ ,  $I_{sc}/I_o = 65.2 mA$ ,  $P_o = 101 mW$ ,  $C_a/C_o = 1.4 \mu F$ ,  $L_a/L_o = 5.0 mH$ ; when installed per installation Dwg. 214896; T-Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; T-Code T6 @ Max Ambient 56 Deg C.

Model TTH200-R2H Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; non-incendive (terminals "+" and "-") with Entity input parameters of:  $V_{max}/U_i = 30V$ ,  $I_{max}/I_i = 130mA$ ,  $P_{max}/P_i = 0.8 W$ ,  $C_i = 5 nF$ ,  $L_i = 0.5 mH$ ; having output terminals (terminals 1-2-3-4-5-6) with entity output parameters of:  $V_{oc}/U_o = 6.5V$ ,  $I_{sc}/I_o = 25 mA$ ,  $P_o = 38 mW$ ,  $C_a/C_o = 1.55 \mu F$ ,  $L_a/L_o = 5.0 mH$ ; and having output terminals (terminals JP1) with entity output parameters of:  $V_{oc}/U_o = 6.2 V$ ,  $I_{sc}/I_o = 65.2 mA$ ,  $P_o = 101 mW$ ,  $C_a/C_o = 1.4 \mu F$ ,  $L_a/L_o = 5.0 mH$ ; when installed per installation Dwg. TTH200-R2H(2); T-Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; T-Code T6 @ Max Ambient 56 Deg C.

Model TTR300-R6H Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; non-incendive (terminals "+" and "-") with Entity input parameters of:  $V_{max}/U_i = 30V$ ,  $I_{max}/I_i = 130mA$ ,  $P_{max}/P_i = 0.8 W$ ,  $C_i = 5 nF$ ,  $L_i = 0.5$



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mH; having output terminals (terminals 1-2-3-4-5-6) with entity output parameters of: Voc/Uo = 6.5V, Isc/Io = 25 mA, Po = 38 mW, Ca/Co = 1.55  $\mu$ F, La/Lo = 5.0 mH; and having output terminals (terminals JP1) with entity output parameters of: Voc/Uo = 6.2 V, Isc/Io = 65.2 mA, Po = 101 mW, Ca/Co = 1.3  $\mu$ F, La/Lo = 5.0 mH; when installed per installation Dwg. TTR300-R6H(N.I.); T-Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; T-Code T6 @ Max Ambient 56 Deg C.

Model TTR200-R6H Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; non-incendive (terminals "+" and "-") with Entity input parameters of: Vmax/Ui = 30V, Imax/Ii = 130mA, Pmax/Pi = 0.8 W, Ci = 5 nF, Li = 0.5 mH; having output terminals (terminals 1-2-3-4-5-6) with entity output parameters of: Voc/Uo = 6.5V, Isc/Io = 25 mA, Po = 38 mW, Ca/Co = 1.55  $\mu$ F, La/Lo = 5.0 mH; and having output terminals (terminals JP1) with entity output parameters of: Voc/Uo = 6.2 V, Isc/Io = 65.2 mA, Po = 101 mW, Ca/Co = 1.3  $\mu$ F, La/Lo = 5.0 mH; when installed per installation Dwg. TTR200-R6H(N.I.); T-Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; T-Code T6 @ Max Ambient 56 Deg C.

Note: Models TTH300, TTH200, TTR300 and TTR200 are open type units, Certified as a component for use only in other equipment where the suitability of the combination is to be determined by the authority having jurisdiction.

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

Class I, Div. 1 & 2, Groups A, B, C and D; Class II, Div. 1 & 2, Groups E, F and G; Class III, Div. 1 & 2; Type 4X:

Ex ia IIC T4:

Model TTF300-R1xxH Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; intrinsically safe (terminals "+" and "-") with Entity input parameters of: Vmax/Ui = 30V, Imax/Ii = 130mA, Pmax/Pi = 0.8 W, Ci = 5 nF, Li = 0.5 mH; having output terminals (terminals 1-2-3-4-5-6) with entity output parameters of: Voc/Uo = 6.5V, Isc/Io = 25 mA, Po = 38 mW, Ca/Co = 1.55  $\mu$ F, La/Lo = 5.0 mH; and having output terminals (terminals JP1) with entity output parameters of: Voc/Uo = 6.2 V, Isc/Io = 65.2 mA, Po = 101 mW, Ca/Co = 1.4  $\mu$ F, La/Lo = 5.0 mH; when installed per installation Dwg. 214825; T-Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; T-Code T6 @ Max Ambient 56 Deg C.

Class I, Div. 1 & 2, Groups A, B, C and D:

Ex ia IIC T4:

Model TTH300-R1H Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; intrinsically safe (terminals "+" and "-") with Entity input parameters of: Vmax/Ui = 30V, Imax/Ii = 130mA, Pmax/Pi = 0.8 W, Ci = 5 nF, Li = 0.5 mH; having output terminals (terminals 1-2-3-4-5-6) with entity output parameters of: Voc/Uo = 6.5V, Isc/Io = 25 mA, Po = 38 mW, Ca/Co = 1.55  $\mu$ F, La/Lo = 5.0 mH; and having output terminals (terminals JP1) with entity output parameters of: Voc/Uo = 6.2 V, Isc/Io = 65.2 mA, Po = 101 mW, Ca/Co = 1.4  $\mu$ F, La/Lo = 5.0 mH; when installed per installation Dwg. 214826; T-Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; T-Code T6 @ Max Ambient 56 Deg C.

Model TTH200-R1H Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; intrinsically safe (terminals "+" and "-") with Entity input parameters of: Vmax/Ui = 30V, Imax/Ii = 130mA, Pmax/Pi = 0.8 W, Ci = 5 nF, Li = 0.5



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mH; having output terminals (terminals 1-2-3-4-5-6) with entity output parameters of: Voc/Uo = 6.5V, Isc/Io = 25 mA, Po = 38 mW, Ca/Co = 1.55  $\mu$ F, La/Lo = 5.0 mH; and having output terminals (terminals JP1) with entity output parameters of: Voc/Uo = 6.2 V, Isc/Io = 65.2 mA, Po = 101 mW, Ca/Co = 1.4  $\mu$ F, La/Lo = 5.0 mH; when installed per installation Dwg. TTH200-R1H; T-Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; T-Code T6 @ Max Ambient 56 Deg C.

Model TTR300-R6H Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; intrinsically safe (terminals "+" and "-") with Entity input parameters of: Vmax/Ui = 30V, Imax/Ii = 130mA, Pmax/Pi = 0.8 W, Ci = 5 nF, Li = 0.5 mH; having output terminals (terminals 1-2-3-4-5-6) with entity output parameters of: Voc/Uo = 6.5V, Isc/Io = 25 mA, Po = 38 mW, Ca/Co = 1.55  $\mu$ F, La/Lo = 5.0 mH; and having output terminals (terminals JP1) with entity output parameters of: Voc/Uo = 6.2 V, Isc/Io = 65.2 mA, Po = 101 mW, Ca/Co = 1.3  $\mu$ F, La/Lo = 5.0 mH; when installed per installation Dwg. TTR300-R6H(I.S.); T-Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; T-Code T6 @ Max Ambient 56 Deg C.

Model TTR200-R6H Series Temperature Transmitters; input rated 11-30 Vdc, 4-20 mA; intrinsically safe (terminals "+" and "-") with Entity input parameters of: Vmax/Ui = 30V, Imax/Ii = 130mA, Pmax/Pi = 0.8 W, Ci = 5 nF, Li = 0.5 mH; having output terminals (terminals 1-2-3-4-5-6) with entity output parameters of: Voc/Uo = 6.5V, Isc/Io = 25 mA, Po = 38 mW, Ca/Co = 1.55  $\mu$ F, La/Lo = 5.0 mH; and having output terminals (terminals JP1) with entity output parameters of: Voc/Uo = 6.2 V, Isc/Io = 65.2 mA, Po = 101 mW, Ca/Co = 1.3  $\mu$ F, La/Lo = 5.0 mH; when installed per installation Dwg. TTR200-R6H(I.S.); T-Code T4 @ Max Ambient 85 Deg C; T-Code T5 @ Max Ambient 71 Deg C; T-Code T6 @ Max Ambient 56 Deg C.

Note: Model TTH300, TTH200, TTR300 and TTR200 are open type units, Certified as a component for use only in other equipment where the suitability of the combination is to be determined by the authority having jurisdiction.

## NOMENCLATURE

### Model TTH200-RaHb

a = Protection; 1 (Intrinsically Safe), 2 (Non-Incendive)

b = Configuration; BF, EM, SE, Z9

### Model TTH300-RaHb

a = Protection; 1 (Intrinsically Safe), 2 (Non-Incendive)

b = Configuration; BF, BG, CS, EM, SE, Z9

### Model TTF300-RabcHd



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a = Protection; 1 (Intrinsically Safe), 2 (Non-Incendive), 3 (Explosion-Proof)

b = Housing/Display A, B, C, D

c = Cable Entry 1\*, 2, 3, 4\*

d = Configuration; BF, BG, CS, EM, K2, SE, T1, Z9

Model TTR200-R6Ha

a = Configuration; BF,EM,SE,Z9

Model TTR300-R6Ha

a = Configuration; BF,BG,CS,EM,SE,Z9

Note: \* Not allowed for the Div. 1 or Div. 2 installations under CLASS 2258 02

**APPLICABLE REQUIREMENTS**

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

C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CAN/CSA-C22.2 No. 0-M91 - General Requirements – Canadian Electrical Code, Part II

CAN/CSA-C22.2 No. 94-M91 - Special Purpose Enclosures

C22.2 No. 142-M1987 - Process Control Equipment

CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

CAN/CSA-C22.2 No. 60079-0:07 - Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements

CAN/CSA-E60079-11:02 - Electrical apparatus for explosive gas atmospheres -Part 11: Intrinsic Safety "i"



## *Supplement to Certificate of Compliance*

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

### **Product Certification History**

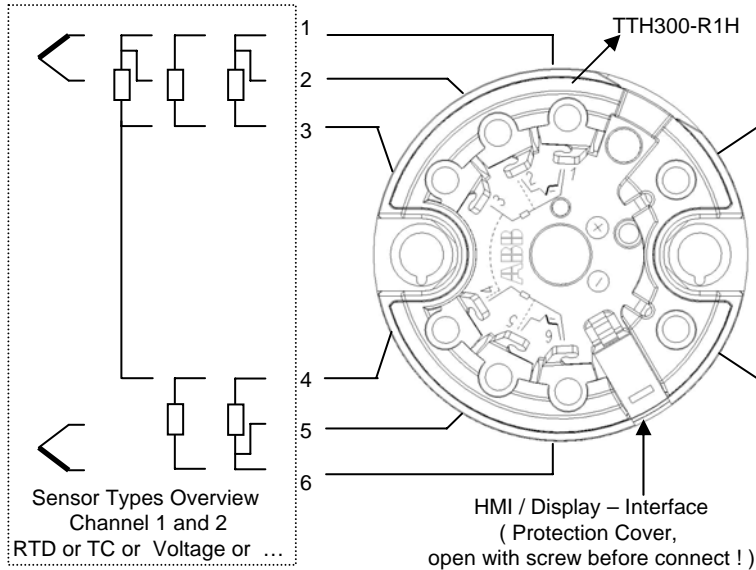
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<b>Project</b>	<b>Date</b>	<b>Description</b>
1948816	2007/12/11	Update to include models TTH200, TTR200 and TTR300 & to include suffix "H" in all model codes.
1885873	2007/03/14	Update to cover circuitry revisions and alternative potting material.
1807522	2006/09/28	Model TTF 300 and TTH 300 Series Temperature Transmitters for Hazardous Locations.

## Hazardous Location

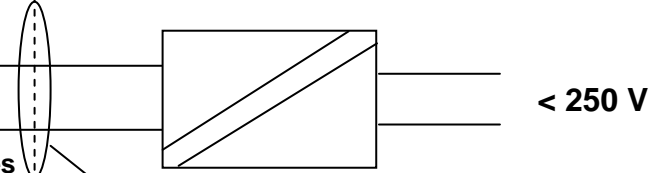
## Non – Hazardous Location

Sensors must be a simple apparatus. RTD's, TC or LED's



**Apparatus Entity Values**  
 Intrinsic Safe.  
 $U_i / V_{max} \leq 30.0 \text{ V DC};$   
 $I_i / I_{max} \leq 130 \text{ mA};$   
 $P_i \leq 0.8 \text{ W}$   
 $C_i = 5 \text{ nF}; L_i = 0,5 \text{ mH}$

### Barrier Galvanic Isolator



- Barrier or Galvanic Isolator must be CSA approved and must be installed in accordance with manufactures instructions.
- Barrier or Galvanic Isolator parameters must meet the following Requirements :  $V_{oc} / U_o \leq V_{max};$   
 $I_{sc} / I_o \leq I_{max};$   
 $P_o \leq P_{max}/P_i$   
 $C_a/C_o \geq C_i + C_{cable}$   
 $L_a/L_o \geq L_i + L_{cable}$
- Maximum non hazardous area voltage must not exceed 250V
- Install in accordance with the CEC, Part I.

$V_{oc}/U_o = 6.5 \text{ V}; I_{sc}/I_o < 25.0 \text{ mA}; P_o = 38 \text{ mW}$

### I.S. Sensor Field Circuit Parameters

Tem. Ident. T6 at Tamb = 56 °C; T5 at Tamb = 71 °C;

T4 at Tamb = 85 °C

Class I Div 1 and Div 2; ; Groups: A,B,C,D or Class I

Zone 0 Ex ia IIC

Terminals: 1,2,3,4,5,6 GP A,B Ca/Co = 1.55  $\mu\text{F}$ ; La/Lo = 5.0 mH  
 C,D Ca/Co = 8.75  $\mu\text{F}$ ; La/Lo = 5.0 mH

### HMI / Display Interface

#### Intrinsically Safe Output Parameters

$V_{oc}/U_o = 6.2 \text{ V}; I_{sc}/I_o < 65.2 \text{ mA}; P_o = 101 \text{ mW}$

Class I Div 1 and Div 2; ; Groups: A,B,C,D or .

Class I Zone 0 Ex ia IIC

Terminals: 6 PIN Connector

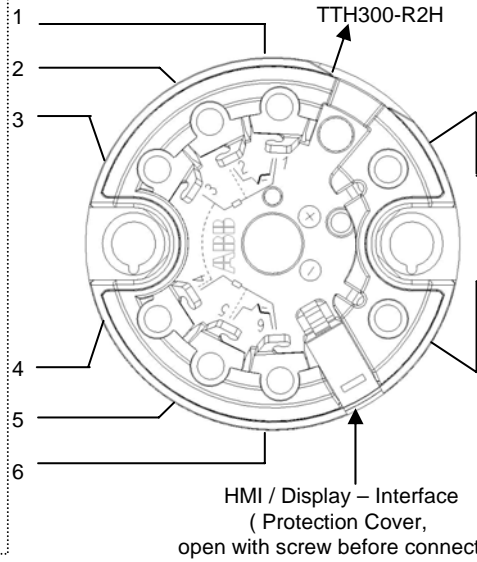
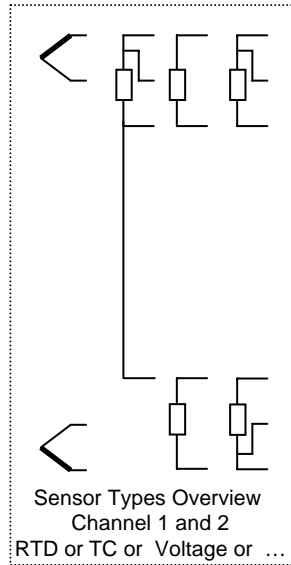
GP A,B Ca/Co = 1.4  $\mu\text{F}$ ; La/Lo = 5.0 mH  
 C,D Ca/Co = 8.9  $\mu\text{F}$ ; La/Lo = 5.0 mH

Temperature Transmitter Model "TTH300" Ordering Code "TTH300-R1H" is an open type unit certified as a component for use only in other equipment where the suitability of the combination is to determined by the authority having jurisdiction.

Rev.	Desc.	Date	Name				Title:	Scale:
1.06	CSA input	20.11.07	Zeiger				TTH300 HART I.S. Temperature Transmitter Control Drawing	-----
1.05	HART	17.07.07	Zeiger					
1.04	L1 in R1	25.09.06	Zeiger	Approv.	20.11.07	Müller	Drawing / Part No.:	Page : of 1 / 1
1.03	5 nF	16.08.06	Zeiger		Date	Name		
1.02	CSA input	09.08.06	Zeiger	 Automation Products				
1.01	CSA input	06.07.06	Zeiger					
1.00	Release	27.01.06	Zeiger				SAP_214826	
							Replacement of: -----	

# Division 2 Hazardous Location

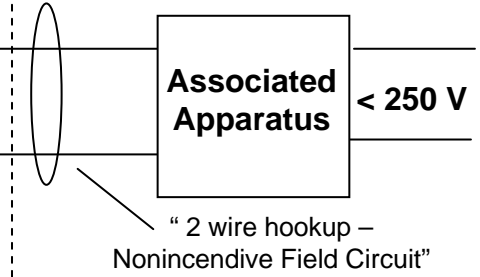
The sensor must be a simple apparatus. RTD's, TC or LED's



### Apparatus Input Values

N.I.  $V_{max} \leq 30.0 \text{ V}$  ;  $I_{max} \leq 130 \text{ mA}$  ;  
 $P_i \leq 0,8 \text{ W}$  ;  $C_i = 5\text{nF}$  ;  $L_i = 0,5\text{mH}$

### Non – Hazardous Location



### Associated Apparatus

Nonincendive Parameters must meet the following Requirements :

$V_{oc} \leq V_{max}$  ;  $C_a/C_o \geq C_i + C_{cable}$  ;  
 $I_{sc} \leq I_{max}$  ;  $L_a/L_o \geq L_i + L_{cable}$

### Nonincendive field circuit

Temp. Ident T6 at Tamb = 56 °C ; T5 at Tamb = 71 °C ;

T4 at Tamb = 85 °C ;

Cass I Div 2 ; Groups: A,B,C,D or

Cass 1 Zone 2 Group IIC T6

### HMI / Display Interface

Nonincendive output Parameters

$V_{oc} = 6.2 \text{ V}$  ;  $I_{sc} < 65.2 \text{ mA}$  ;  $P_o = 101 \text{ mW}$

Terminals: 6 PIN Connector

GP A,B  $C_a/C_o = 1.4 \mu\text{F}$  ;  $L_a/L_o = 5.0 \text{ mH}$

C,D  $C_a/C_o = 8.9 \mu\text{F}$  ;  $L_a/L_o = 5.0 \text{ mH}$

### Sensor Field Circuit Entity Parameters

$V_{oc} = 6.5 \text{ V}$  ;  $I_{sc} < 25.0 \text{ mA}$  ;  $P_o = 38 \text{ mW}$

Terminals: 1,2,3,4,5,6

GP: A,B =  $C_a/C_o = 1.55 \mu\text{F}$  ;  $L_a/L_o = 5.0 \text{ mH}$

C,D =  $C_a/C_o = 8.75 \mu\text{F}$  ;  $L_a/L_o = 5.0 \text{ mH}$

Temperatur Transmitter Model „TTH300“ Ordering Code „TTH300-R2H“ is an open type unit certified as a component for use only in other equipment where the suitability of the combination is to be determined by the authority having jurisdiction.

The Temperature Transmitter is CSA Certified as Non-Incendive for use in Class I, Div. 1 Groups A, B, C, D hazardous locations, with Entity input parameters, and provides Non-Incendive Circuits for Class I, Div. 1 Groups A, B, C, D hazardous locations, with Entity output parameters

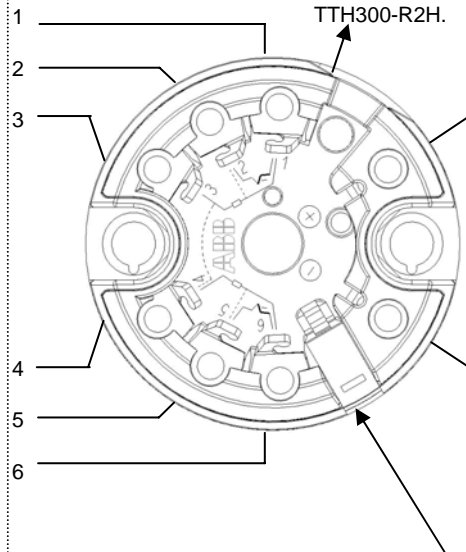
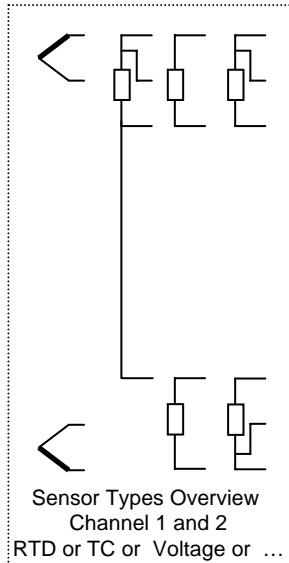
Rev.	Desc.	Date	Name
1.03	CSA info	20.11.07	Zeiger
1.02	HART	17.07.07	Zeiger
1.01	CSA input	25.09.06	Zeiger
1.00	Release	10.08.06	Zeiger



Title:		TTH300 HART N. I. Temperature Transmitter Control Drawing		Scale:	-----
Drawing / Part No.:		SAP_214896		Page : of	1 / 1
Replacement of:		-----			

## Hazardous Location

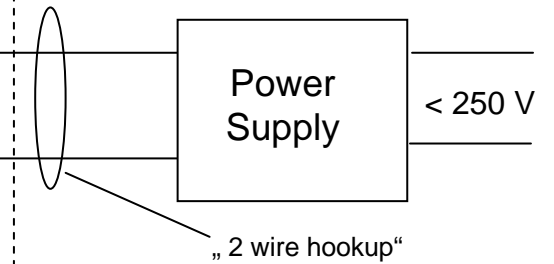
Sensor must be a simple apparatus.  
RTD`s, TC, LED`s



Electrical Rating 11 – 30V dc;  
IEC 1158-2

**Warning: Explosion-Hazard do not disconnect equipment unless power has been switched-off or the area is known to be non-hazardous.**

## Non – Hazardous Location



**Install in accordance with the Canadian Electrical Code.**

Suitable for use in Class I, Div. 2 Groups A, B, C, D, without safety barriers( ie. Conduit Connected), and provides non-incendive circuits to RTD`s, Thermocouples for passiv-resistive non-energy-storing switch devices.

Temp. Ident T6 at Tamb = 56°C; T5 at Tamb = 71°C  
T4 at Tamb = 85°C

**Sensor Field Circuit Nonincendive Entity Parameters**

### HMI / Display Interface

( Protection Cover, open with screw before connect ! )

#### Nonincendive output Parameters

Voc/Uo = 6.2 V; Isc/Io < 65.2 mA; Po = 101 mW

Terminals: 6 PIN Connector

GP A,B Ca/Co = 1.4 µF; La/Lo = 5.0 mH

C,D Ca/Co = 8.9 µF; La/Lo = 5.0 mH

Temperature Transmitter Model “TTH300” Ordering Code “TTH300-R2H” is an open type unit certified as a component for use only in other equipment where the suitability of the combination is to determined by the authority having jurisdiction.

### Warning:

**Substitution of components may impair suitability for Class 1 Division 2**

Rev.	Desc.	Date	Name				Title:	Scale:		
1.05	CSA info	20.11.07	Zeiger				TTH300 HART N. I. Temperature Transmitter Control Drawing	-----		
1.04	HART	17.07.07	Zeiger	Approv.	20.11.07	Müller				
1.03	L2 in R2	25.09.06	Zeiger	Date		Name				
1.02	CSA input	08.08.06	Zeiger				Drawing / Part No.:	Page : of		
1.01	CSA input	06.07.06	Zeiger							1 / 1
1.00	Release	23.05.06	Zeiger							
							Replacement of: -----			

**SAP\_214824**