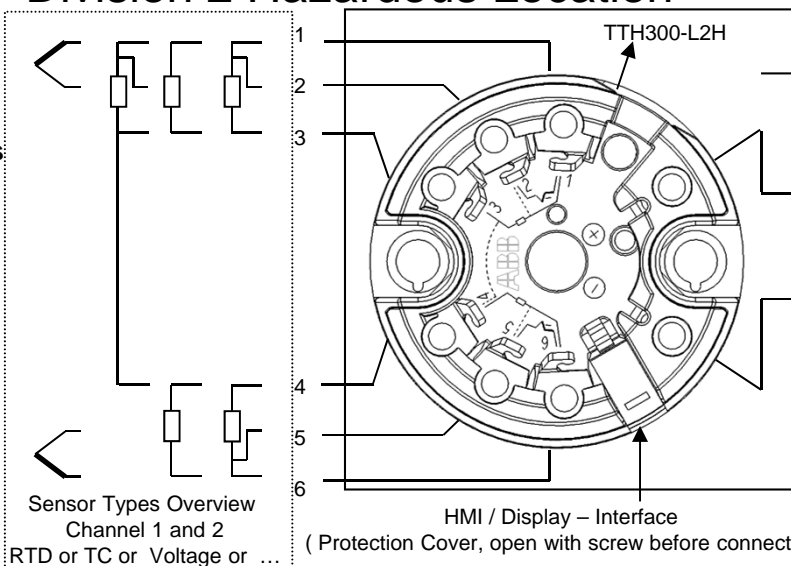


Division 2 Hazardous Location

Non – Hazardous Location

Sensors must be FM approved or be a simple apparatus. Simple apparatus is a device which will neither generate or store more than 1.5 V; 0.1 A; 25 mW or 20 µJ such as switches; RTD's, TC or LED's



AGLF, AGSF,
AGLFD, AGSFD
Enclosure Type 4X

Apparatus Input Values
N.I. V max ≤ 30.0 V ;
I max ≤ 130 mA ; Pi ≤ 0,8W
Ci = 0,57nF; Li = 0,5mH

Associated Apparatus < 250 V

" 2 wire hookup – Nonincendive Field Circuit "

Associated Apparatus

Nonincendive Parameters must meet the following Requirements :

V_{oc} or $V_t \leq V_{max}$; $C_a \geq C_i + C_{cable}$;
 I_{sc} or $I_t \leq I_{max}$; $L_a \geq L_i + L_{cable}$

The temperature transmitter are FM approved for nonincendive field circuits when installed per national electrical code (NEC) article 501-4(B) or 502-4(B) exception with FM nonincendive field circuit output apparatus which meet the parameters shown on this drawings.

Exception: Wiring in nonincendive circuits shall be permitted using any of the methods suitable for wiring in ordinary locations !

Sensor Field Circuit Nonincendive Parameters

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

Class I Div. 2; Groups:A,B,C,D or Class I Zone 2 Group IIC T6

Temp.Ident: T6 at $T_{amb} = 56$ °C;

T5 at $T_{amb} = 71$ °C;

T4 at $T_{amb} = 85$ °C;

Terminals: 1,2,3,4,5,6 GP A,B $C_a = 1.55$ µF; $L_a = 5.0$ mH
C,D $C_a = 8.75$ µF; $L_a = 5.0$ mH

HMI / Display Interface

Non-incendive Output Parameters

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

Terminals: 6 PIN Connector

GP A,B $C_a = 1.4$ µF; $L_a = 5.0$ mH

C,D $C_a = 8.9$ µF; $L_a = 5.0$ mH

Temperature Transmitter Model "TTF300", Ordering Code "TTF300-L2..H" is an Temp. Transmitter Type TTH300-L2H which is installed in an enclosure type AGLF, AGSF or AGLFD, AGSFD w/wo FM approved display HMI-Ex type A, AS, B or BS.

„ WARNING! The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction“.

Rev.	Desc.	Date	Name
1.05	New Ci	03.08.12	Zeiger
1.04	Warning	22.11.11	Zeiger
1.03	HART	17.07.07	Zeiger
1.02	FM Repor	05.10.06	Zeiger
1.01	FM input	10.07.06	Zeiger
1.00	Release	23.05.06	Zeiger

Approv.	Date	Name
	17.07.07	Müller

ABB
Automation Products

Title:		Scale:	
TTF300 HART N. I. Temperature Transmitter Control Drawing		----	
		Drawing / Part No.:	
SAP_214828		Page : of	
		1 / 1	
Replacement of: -----			