FM Approvals
Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

Model TTH200-ab, Temperature Transmitter

IS/I,II,III/1/ABCDEFG/ T*; - TTH200-L1P/F(IS) or TTH200-R1P/F(IS); Entity;
I/0/AEx ia IIC; T*- TTH200-L1P/F(IS) or TTH200-R1P/F(IS);
NI/I/2/ABCD/ T*; NI/2/II T* = Ta = *- TTH200-L1P/F(NI) or TTH200-R1P/F(NI);
S/II,III/2/EFG T*

a = Type of protection; L1, L2, R1 or R2.
b = Communication protocol; P or F.

Entity Parameters:

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W, Ci = 5 nF, Li = 10µH
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W, Ci = 5 nF, Li = 10µH

Output Terminals (1, 2, 3, 4, 5 and 6)

Group AB: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 1.55µF, Lo (La) = 5mH
Group CD: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 8.75µF, Lo (La) = 5mH

Output Terminals (JP1)

Uo (Voc) = 6.2V, Io (Isc) = 65.2mA, Po = 101mW, Co (Ca) = 1.4µF, Lo (La) = 5mH

NonIncendive Field Wiring parameters

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W

Special Conditions of Use:

1 *For Intrinsic Safety and Non Incendive Approvals the Temperature code and Ambient temperatures are as follows:*

T* = Temperature Code T6 for a Maximum Ambient Temperature of 56°C.
T* = Temperature Code T5 for a Maximum Ambient Temperature of 71°C
T* = Temperature Code T4 for a Maximum Ambient Temperature of 85°C.

2 *The product will be required in a enclosure which fullfil the NEMA 4X Standard for Class II and III.*

Model TTH300-ab, Temperature Transmitter

IS/I,II,III/1/ABCDEFG/ T*; - TTH300-L1P/F(IS) or TTH300-R1P/F(IS); Entity;
I/0/AEx ia IIC; T*- TTH300-L1P/F(IS) or TTH300-R1P/F(IS);
NI/I/2/ABCD/ T*; NI/2/II T* = Ta = *- TTH300-L1P/F(NI) or TTH300-R1P/F(NI);
S/II,III/2/EFG T*

a = Type of protection; L1, L2, R1 or R2.
b = Communication protocol; P or F.

Entity Parameters:

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W, *Ci = 5 nF, Li = 10µH*
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W, *Ci = 5 nF, Li = 10µH*

Output Terminals (1, 2, 3, 4, 5 and 6)

Group AB: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 1.55µF, Lo (La) = 5mH
Group CD: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 8.75µF, Lo (La) = 5mH

Output Terminals (JP1)

Uo (Voc) = 6.2V, Io (Isc) = 65.2mA, Po = 101mW, Co (Ca) = 1.4µF, Lo (La) = 5mH

NonIncendive Field Wiring parameters

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W

Special Conditions of Use:

1. *For Intrinsic Safety and Non Incendive Approvals the Temperature code and Ambient temperatures are as follows:*

T* = Temperature Code T6 for a Maximum Ambient Temperature of 56°C.
T* = Temperature Code T5 for a Maximum Ambient Temperature of 71°C
T* = Temperature Code T4 for a Maximum Ambient Temperature of 85°C.

2 *The product will be required in a enclosure which fullfil the NEMA 4X Standard for Class II and III.*

Model TTR200-ab, Temperature Transmitter

IS/I,II,III/1/ABCDEFG/ T*; - TTR200_TTR200-L6H(IS); Entity;
I/0/AEx ia/IIC; T*- TTR200_TTR200-L6H(IS);
NI/I/2/ABCD/ T*; NI/2/II T* = Ta = *- TTR200_TTR200-L6H(NI).

a = Type of protection; L6, R6.
b = Communication protocol; P or F.

Entity Parameters:

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W, Ci = 5 nF, Li = 10µH
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W, Ci = 5 nF, Li = 10µH

Sensor Terminals (1, 2, 3, 4, 5 and 6)

Group AB: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 1.55µF, Lo (La) = 5mH
Group CD: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 8.75µF, Lo (La) = 5mH

Display Connector

Uo (Voc) = 6.2V, Io (Isc) = 65.2mA, Po = 101mW, Co (Ca) = 1.4µF, Lo (La) = 5mH

NonIncendive Field Wiring parameters

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W

Special Conditions of Use:

1. *For Intrinsic Safety and Non Incendive Approvals the Temperature code and Ambient temperatures are as follows:*

T* = Temperature Code T6 for a Maximum Ambient Temperature of 56°C.
T* = Temperature Code T5 for a Maximum Ambient Temperature of 71°C
T* = Temperature Code T4 for a Maximum Ambient Temperature of 85°C.

2. *For a Class II,III rating the instrument is required to be mounted into an Class II, Class III rated enclosure that is compliant to ANSI/ISA 61010 standard.*

Model TTR300-ab, Temperature Transmitter

IS/I,II,III/1/ABCDEFG/ T*; - TTR200_TTR300-L6H(IS); Entity;
I/0/AEx ia/IIC; T*- TTR200_TTR300-L6H(IS);
NI/I/2/ABCD/ T*; NI/2/II T* = Ta = *- TTR200_TTR300-L6H(NI).

a = Type of protection; L6, R6.
b = Communication protocol; P or F.

Entity Parameters:

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W, Ci = 5 nF, Li = 10µH
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W, Ci = 5 nF, Li = 10µH

Sensor Terminals (1, 2, 3, 4, 5 and 6)

Group AB: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 1.55µF, Lo (La) = 5mH
Group CD: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 8.75µF, Lo (La) = 5mH

Display Connector

Uo (Voc) = 6.2V, Io (Isc) = 65.2mA, Po = 101mW, Co (Ca) = 1.4µF, Lo (La) = 5mH

NonIncendive Field Wiring parameters

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W

Special Conditions of Use:

1. *For Intrinsic Safety and Non Incendive Approvals the Temperature code and Ambient temperatures are as follows:*

T* = Temperature Code T6 for a Maximum Ambient Temperature of 56°C.
T* = Temperature Code T5 for a Maximum Ambient Temperature of 71°C
T* = Temperature Code T4 for a Maximum Ambient Temperature of 85°C.

2. *For a Class II,III rating the instrument is required to be mounted into an Class II, Class III rated enclosure that is compliant to ANSI/ISA 61010 standard.*

Model TTF300-abcd, Temperature Transmitter

IS/I,II,III/1/ABCDEFG/ T*; - TTF300-L1..P/F(IS) or TTF300-R1..P/F(IS); Entity;
I/0/AEx ia IIC; T*- TTF300-L1..P/F(IS) or TTF300-R1..P/F(IS);
NI/I/2/ABCD/ T*; NI/2/II T* = Ta = *- TTF300-L2..P/F(NI) or TTF300-R2..P/F(NI);
S/II,III/2/EFG T**,
XP/I/ABCD/ T*;
DIP/II,III/EFG/ T**

a = Type of protection; L1, L2, L3,R1, R2 or R3.
b = Housing/Display; A or B or C or D.
c = Cable Entry; 1 or 2 or 3 or 4
d = Communication protocol; P or F.

Entity Parameters:

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W, Ci = 5 nF, Li = 10µH
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W, Ci = 5 nF, Li = 10µH

Output Terminals (1, 2, 3, 4, 5 and 6)

Group AB: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 1.55µF, Lo (La) = 5mH
Group CD: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 8.75µF, Lo (La) = 5mH

Output Terminals (JP1)

Uo (Voc) = 6.2V, Io (Isc) = 65.2mA, Po = 101mW, Co (Ca) = 1.4µF, Lo (La) = 5mH

NonIncendive Field Wiring parameters

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W

Special Conditions of Use:

1 *For Intrinsic Safety and Non Incendive Approvals the Temperature code and Ambient temperatures are as follows:*

T* = Temperature Code T6 for a Maximum Ambient Temperature of 44°C.
T* = Temperature Code T5 for a Maximum Ambient Temperature of 56°C
T* = Temperature Code T4 for a Maximum Ambient Temperature of 84°C.

2 *For Explosionproof and Dust-Ignitionproof Approvals the Temperature code and Ambient temperatures are as follows:*

T** = Temperature Code T6 for a Maximum Ambient Temperature of 56°C.
T** = Temperature Code T5 for a Maximum Ambient Temperature of 71°C
T** = Temperature Code T4 for a Maximum Ambient Temperature of 85°C.

Model TTF350-abcd, Temperature Transmitter

IS/I,II,III/1/ABCDEFG/ T*; - TTF350-L4..P/F(IS); Entity;
I/0/AEx ia IIC; T*-TTF350-L4..P/F;
NI/I/2/ABCD/ T*; NI/2/II T* = Ta = *-TTF350-L5..P/F(NI) or TTF350-L5..P/F(NI);
S/II,III/2/EFG T**,
XP/I/ABCD/ T*;
DIP/II,III/EFG/ T**; Type 4X; IP66 IP67 TTF350-L3..(FM).

a = Type of protection; L3, L4, L5, R3, R4 or R5.
b = Housing/Display; N, or R.
c = Cable Entry; 5,6 or 8.
d = Communication protocol; P or F.

Entity Parameters:

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W, Ci = 5 nF, Li = 10µH
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W, Ci = 5 nF, Li = 10µH

Vmax=30v, Imax= 130mA, Pmax= 0.8W Ci=5nF, Li=500µH
Output Terminals (1, 2, 3, 4, 5 and 6)

Group AB: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 1.55µF, Lo (La) = 5mH
Group CD: Uo (Voc) = 6.5V, Io (Isc) = 25.0mA, Po = 38mW, Co (Ca) = 8.75µF, Lo (La) = 5mH

Output Terminals (JP1)

Uo (Voc) = 6.2V, Io (Isc) = 65.2mA, Po = 101mW, Co (Ca) = 1.4µF, Lo (La) = 51mH

NonIncendive Field Wiring parameters

FISCO: Ui (Vmax) = 17.5V, Ii (Imax) = 380mA, Pi (Pmax) = 5.32W, Ci = 5 nF, Li = 10µH
Entity I.S.: Ui (Vmax) = 24V, Ii (Imax) = 250mA, Pi (Pmax) = 1.2W, Ci = 5 nF, Li = 10µH

Special Conditions of Use:

1. *For Intrinsic Safety and Non Incendive Approvals the Temperature code and Ambient temperatures are as follows:*

T* = Temperature Code T6 for a Maximum Ambient Temperature of 44°C.
T* = Temperature Code T5 for a Maximum Ambient Temperature of 56°C
T* = Temperature Code T4 for a Maximum Ambient Temperature of 84°C.

2. *For Explosionproof and Dust-Ignitionproof Approvals the Temperature code and Ambient temperatures are as follows:*

T** = Temperature Code T6 for a Maximum Ambient Temperature of 56°C.
T** = Temperature Code T5 for a Maximum Ambient Temperature of 71°C
T** = Temperature Code T4 for a Maximum Ambient Temperature of 85°C.
T** = Temperature Code T3 for a Maximum Ambient Temperature of 120°C.

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Equipment Ratings:

The TTH200-.P/F, TTH300-.P/F, TTF300-.P/F, TTF350-.P/F, TTR200-.P/F and TTR300-.P/F Profibus/Fieldbus Series Temperature Transmitters are FM Approved for Intrinsic Safety for Class I, II, III, Division 1, Groups A, B, C, D, E, F and G; Non Incendive for Class I, Division 2, Groups A, B, C, D and Suitable for Class II, III, Division 2, Groups E, and G when connected in conjunction with Control Drawings In addition, the TTF300-.P/F, TTF350-.P/F Temperature Transmitter is FM Approved for Explosionproof For Class I, Division 1, Groups A, B, C and D and Dust-Ignition Proof for Class II, III, Division 1, Groups E, F and G Hazardous(classified) Locations Indoors and Outdoors Type 4X, IP66, IP67.

FM Approved for:

ABB Automation Products GmbH
Alzenau, Germany

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Member of the FM Global Group

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3610	1999
Class 3611	2004
Class 3615	2006
Class 3616	1989
ISAS12.00.01	2002
Class 3810	2005
Nema 250	2003
IEC60529	2004

Original Project ID: 3027610 Approval Granted: January 5, 2007

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
070801	November 2, 2007		
3028938	December 10, 2007		
3031178	October 9, 2008		
3037064	December 18, 2009		

FM Approvals LLC

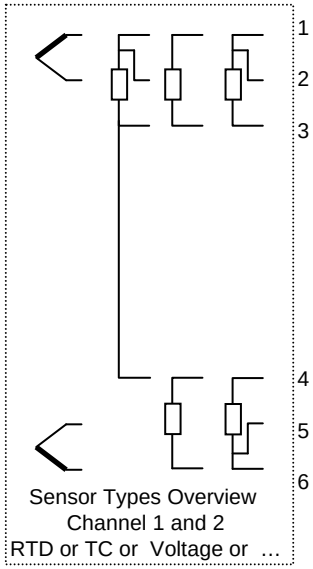
J. E. Marquedant

James E. Marquedant
Group Manager, Electrical

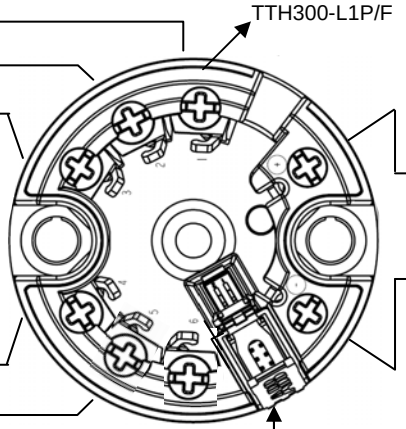
18 December 2009
Date

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



Sensor Types Overview
Channel 1 and 2
RTD or TC or Voltage or …

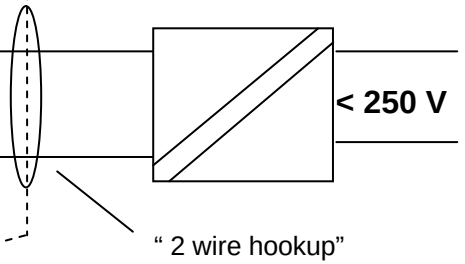


HMI / Display – Interface
(Protection Cover,
open with screw before connect !)

Apparatus input Values
FISO-Model I.S. V max = 17.5 V ;
I max = 380 mA ; Pi = 5.32 W
Ci = 5 nF Li = 0,5 mH, Io <= 50 µA
Entity-Model I.S V max = 24 V;
I max = 250 mA, Pi = 1.2 W
Li <= 10 µH, Ci <= 5 nF
Io <= 50 µA

Non – Hazardous Location

Barrier
Galvanic Isolator



1. Barrier or Galvanic Isolator must be FM approved and must be installed in accordance with manufactures instructions.
2. Barrier or Galvanic Isolator parameters must meet the following Requirements :
3. Voc or Vt ∗ V max; Ca] Ci + Ccable;
   Isc or It ∗ I max; La] Li + Lcable
   Po or Pt ∗ P max
1. Maximum non hazardous area voltage must not exceed 250V
2. Install in accordance with the NEC (ANSI/NFPA 70) and ANSI/ISA RP12.6. " Installation of intrinsically safe systems" Do not alter without FM authorization

I.S. Sensor Field Circuit Entity Parameters
Voc = 6.5 V; Isc < 25.0 mA; Po = 38 mW
Tem. Ident. for Class I Div. 1 and Div. 2; Groups A,B,C,D
T6 at Tamb = 56 °C; T5 at Tamb = 71 °C;
T4 at Tamb = 85 °C
Tem. Ident. For Class I Zone 0 AEx ia IIC
T6 at Tamb = 44 °C; T5 at Tamb = 56 °C;
T4 at Tamb = 84 °C
Terminals: 1,2,3,4,5,6
GP: A,B Ca = 1.55 µF; La = 5.0 mH
C,D Ca = 8.75 µF; La = 5.0 mH

HMI / Display Interface
Intrinsically Safe Output Parameters
Voc = 6.2 V; Isc < 65.2 mA; Po = 101 mW
Class I Div 1 and Div 2; ; Groups: A,B,C,D or
Class I Zone 0 AEx ia IIC
Terminals: 6 PIN Connector
GP A,B Ca = 1.4 µF; La = 5.0 mH
C,D Ca = 8.9 µF; La = 5.0 mH

Temperature Transmitter Model "TTH300"
Ordering Code "TTH300-L1P/F" is an open type Unit which must be installed within an enclosure appropriate for environmental protection accordance with ANSI/ISA S82 01 and S82 03 standards.

Warning: Resistance between barrier ground and earth ground must be less then 1.0 Ohm!

Rev.	Desc.	Date	Name
1.00	Release	13.02.09	Zeiger

Approv.	13.02.09	Müller
	Date	Name

ABB
Automation Products

Title: TTH300 Fieldbus
I.S. Temperature Transmitter
Control Drawing

Scale: -----

Drawing / Part No.: TTH300-L1P (IS)
TTH300-L1F (IS)

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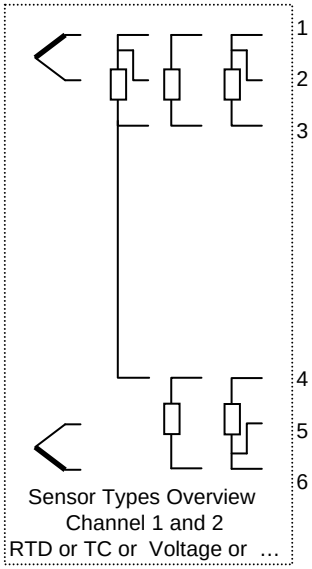
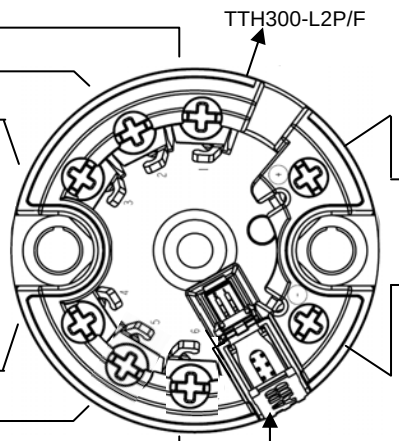
Replacement of: --------

Hazardous Location

The sensor 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



Sensor Types Overview
Channel 1 and 2
RTD or TC or Voltage or …



HMI / Display – Interface
(Protection Cover,
open with screw before connect !)

Apparatus input Values
FISO-Model I.S. V max = 17.5 V ;
I max = 380 mA ; Pi = 5.32 W
Ci = 5 nF Li = 0,5 mH, Io <= 50 µA
Entity-Model I.S V max = 24 V;
I max = 250 mA, Pi = 1.2 W
Li <= 10 µH, Ci <= 5 nF
Io <= 50 µA

Non – Hazardous Location

Associated Apparatus

< 250 V

" 2 wire hookup –
Nonincendive Field Circuit"

FM nonincendive field circuit approval
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

Sensor Field Circuit Entity Parameters
Voc = 6.5 V; Isc < 25.0 mA; Po = 38 mW
Terminals: 1,2,3,4,5,6
GP: A,B = Ca =1.55 µF; La = 5.0 mH
C,D = Ca = 8.75 µF; La = 5.0 mH

Temperature Transmitter Model "TTH300" Ordering Code "TTH300-L2P/F" is an open type unit which must be installed within an enclosure appropriate for environmental protection accordance with ANSI/ISA S82 01 and S82 03 standards.

HMI / Display Interface Output Parameters
N.I. Cass I Div 2; Group: A,B,C,D or
N.I. Class 1 Zone 2 Groups IIC T6
Voc = 6.2 V; Isc < 65.2 mA; Po = 101 mW
Terminals: 6 PIN Connector
GP A,B Ca = 1.4 µF; La = 5.0 mH
C,D Ca = 8.9 µF; La = 5.0 mH

Associated Apparatus
Nonincendive Parameters must meet the following Requirements :
Voc or Vt ∗ V max; Ca] Ci + Ccable;
Isc or It ∗ I max; La] Li + Lcable
The temperature transmitter is FM approved for nonincendive field ciruits when installed per national electrical code (NEC) article 501-4(B) exception or 502-4(B) exception with FM approved nonincendive field circuit output apparatus which meet the parameters indicated below.
Article 501-4(B)/502-4(B)

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

Rev.	Desc.	Date	Name
1.00	Release	13.02.09	Zeiger

Approv.	13.02.09	Müller
	Date	Name

ABB
Automation Products

Title:
TTH300 Fieldbus
N. I. Temperature Transmitter
Control Drawing

Scale: -----

Drawing / Part No.:
TTH300-L2P (NI_AA)
TTH300-L2F (NI_AA)

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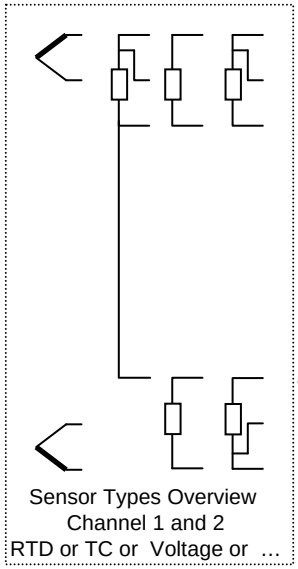
Replacement of: --------

Hazardous Location

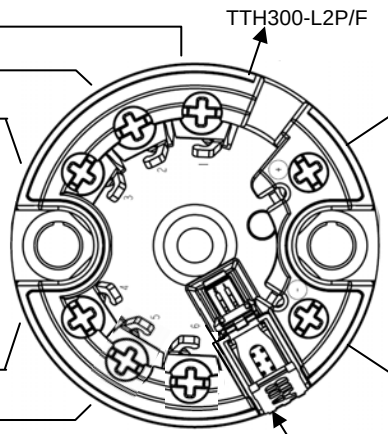
Non – Hazardous Location

Sensor must be a simple apparatus.

RTD`s, TC, LED`s



Sensor Types Overview
Channel 1 and 2
RTD or TC or Voltage or …



Electrical Rating 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.

Power Supply

< 250 V

„ 2 wire hookup“

Install per National Electrical Code (NEC).

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 = 1.4 µF; La = 5.0 mH
C,D Ca = 8.9 µF; La = 5.0 mH

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, T4 at Tamb = 85°C
Sensor Field Circuit Nonincendive Entity Parameters

Temperature Transmitter Model “TTH300” Ordering Code “TTH300-L2P/F” is an open type unit which must be installed within an enclosure appropriate for environmental protection accordance with ANSI/ISA S82 01 and 8S82 03 standards.

Warning:

Substitution of components may impair suitability for Class 1 Division 2

Rev.	Desc.	Date	Name
1.00	FM Report	13.02.09	Zeiger

Approv.	13.02.09	Müller
	Date	Name

ABB
Automation Products

Title:
TTH300 Fieldbus
N. I. Temperature Transmitter
Control Drawing

Scale: -----

Drawing / Part No.:
TTH300-L2P (NI_PS)
TTH300-L2F (NI_PS)

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Replacement of: --------