

ADVARSEL Modulet må kun tilsluttes af kvalificerede teknikere...
WARNING Only technicians, who are familiar with the technical terms, warnings, and instructions in the manual...

AVERTISSEMENT Il est conseillé de réserver le raccordement du module aux techniciens qualifiés qui connaissent les termes techniques...
WARNUNG Das Gerät darf nur von qualifizierten Technikern angeschlossen werden, die mit den technischen Ausdrücken...

Segurança O produto deve ser instalado apenas por pessoal qualificado...
Segurança O produto deve ser instalado apenas por pessoal qualificado...

EU DECLARATION OF CONFORMITY (7501Doc_104)
PR electronics A/S, Lerbakken 10, DK-8410 Rønde
Type: Name: Field mounted HART temperature transmitter
From serial no: 21884897

7501 ATEX Installation
For safe installation of 7501 the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards EN 60079-10 that apply to this area.

Ex ia installation
ATEX Certificate: DEKRA 15ATEX0058 X
Marking: II 1G Ex ia IIC T6... T4 Gc
II 2G Ex ia IIC T6... T4 Gc
II 1M Ex ia I Ma (7501B)

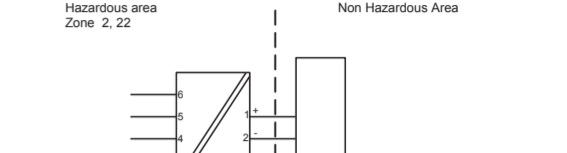
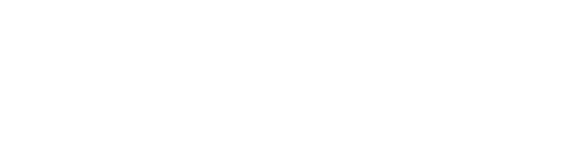
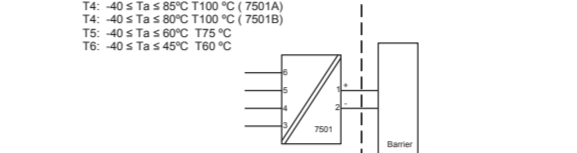
Ex ec, ic installation:
Certificate: DEKRA 15ATEX0058 X
Marking: II 3 G Ex ec IIC T6... T4 Gc
II 3 G Ex ic IIC T6... T4 Gc
II 3 D Ex ic IIC T100°C Dc

Elektriske specifikationer
Driftstemperatur -40°C til +85°C
med silikone O-ring -20°C til +85°C
Reduceret LCD ydeevne under -20°C og over +70°C

Specifications
Operating temperature with silicone O-ring -40°C to +85°C
with FKM O-ring -20°C to +85°C
Reduced LCD performance below -20°C and above +70°C

Elektrische Daten
Anwendungstemperatur mit Silikon-O-Ring -40°C bis +85°C
mit FKM-O-Ring -20°C bis +85°C
Reduzierte LCD Leistung unter -20°C und über +70°C

ATEX Certificate: DEKRA 15ATEX0058 X
Marking: II 1G Ex ia IIC T6... T4 Gc
II 2G Ex ia IIC T6... T4 Gc
II 1M Ex ia I Ma (7501B)



Mekaniske specifikationer
Diameter 10 mm
Dimensioner, H x B x D: 109,3x145x126 mm
Aluminium ADC3 (AL) 107,4x145x124 mm

Mechanical specifications
Dimensions, H x B x D: 110 mm
Aluminum ADC3 (AL) 109,3x145x126 mm
Stainless steel 316 (RF) 107,4x145x124 mm

Mechanische Spezifikationen
Diameter 10 mm
Abmessungen, H x B x D: 109,3x145x126 mm
Rostfrei Stahl 316 (RF) 107,4x145x124 mm

UKCA Declaration of Conformity
PR electronics A/S, Lerbakken 10, DK-8410 Rønde
Type: Name: Field mounted HART temperature transmitter
From serial no: 21884897

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Fælles specifikationer
Forsyningsspænding DC: 10...30 VDC
Ex ia, egeniskret: 10...30 VDC
(12...30 VDC med baggrunds-belysning)

Specifications communes
Tension d'alimentation, cc: 10...30 Vcc
Ex ia, intrinsèquement sûr: 10...30 Vcc
avec rétro-éclairage

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Indgangsspecifikationer
Indgang for RTD-type: P550, P1100, P2100, P5100, P1000, N510, N1100, Ni210, Ni1000
Kabelmodstand par leder (max.): 5 Ω

RTD input types
P550, P1100, P2100, P5100, P1000, N510, N1100, Ni210, Ni1000
Cable resistance per wire (max.): 5 Ω

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Indgang for TC-type: B, E, J, K, L, N, R, S, T, U, W3, W5, Lr
mV-indgang
Måleområde, spænding: -800...+800 mV

TC input types
P550, P1100, P2100, P5100, P1000, N510, N1100, Ni210, Ni1000
mV input: Voltage input range: -800...+800 mV

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From serial no: 21884897

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Godkendelser
EMC: 2014/30/EU & UK SI 2016/1091
ATEX: 2014/34/EU & UK SI 2016/1107

Approvals
EMC: 2014/30/EU & UK SI 2016/1091
ATEX: 2014/34/EU & UK SI 2016/1107

UKCA Declaration of Conformity
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Overholdte myndighedskrav
EMC: 2014/30/EU & UK SI 2016/1091
ATEX: 2014/34/EU & UK SI 2016/1107

Observed authority requirements
EMC: 2014/30/EU & UK SI 2016/1091
ATEX: 2014/34/EU & UK SI 2016/1107

UKCA Declaration of Conformity
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Godkendelser
DK: Sideskilt / mærkning
UK: Side label / marking
FR: Etiquette / marquage
DE: Typenschild / Markierung

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7501 CSA Installation
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Produktionsår fremgår af de to første cifre i serienummeret.
Year of manufacture can be taken from the first two digits in the serial number.

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Year of manufacture can be taken from the first two digits in the serial number.

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Godkendelser
DK: Godkendelser
UK: Approvals
FR: Approbations
DE: Zulassungen

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Når modulet installeres som Ex ia, ic, db, ec eller FR, skal der på topskiltet sættes en kærmerpækl til mærkning af den anvendte installationsstype.

Lorsque ce produit a été installé comme Ex ia, ic, db, ec ou tb, utiliser un poinçon à marquer où la case appropriée pour indiquer le type d'installation sur l'étiquette.

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Ex-godkendelser
DK: Ex-godkendelser
UK: I.S. approvals
FR: Approbations I.S.

Warning
Substitution of components may impair intrinsic safety.

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7501xxxxxx2 DEKRA 15ATEX0058X M1 0.1, 2, 21, 22 M1 (stainless steel only) 7501QA01 GY20.1630X

7501xxxxxx2 DEK 15.0039X M1 0.1, 2, 21, 22 M1 (stainless steel only) 7501QI01 RU / DK HA65.8.00395/19

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7501xxxxxx2 DEKRA 23.0012X M1 0.1, 2, 20, 21, 22 M1 (stainless steel only) 7501QB01

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Dokumentation, godkendelser og yderligere information findes på internettet på www.prellectronics.dk
Documentation, permits and other information can be found on the internet at www.prellectronics.com

Dokumentation, Zulassungen und andere Informationen können auf unserer Internet-Seite unter www.prellectronics.de gefunden und abgerufen werden.
Documentação, licenças e outras informações podem ser encontradas no site www.prellectronics.com

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7501 ICEX Installation

For safe installation of 7501 the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards (IEC60079-14) that apply to this area.

Year of manufacture can be taken from the first two digits in the serial number.

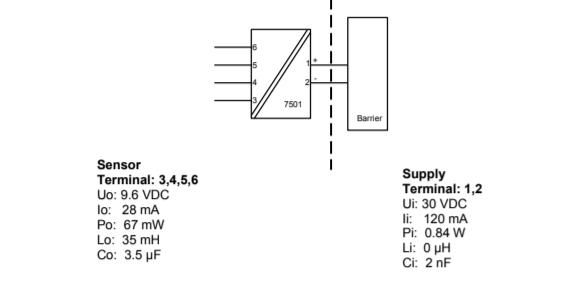
Ex ia installation:

Certificate IECEx DEK 15.0039 X
Marking Ex ia IIC T6, T4 Ga
Ex ia IIC T100°C Db
Ex ia I Ma (7501B)

Standards: IEC 60079-0:2017, IEC 60079-11:2011

Hazardous area
Zone 0, 1, 2, 21, 22, Mines

Non Hazardous Area
T4: -40 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -40 ≤ Ta ≤ 85°C T100°C (7501B)
T4: -40 ≤ Ta ≤ 80°C T75°C
T6: -40 ≤ Ta ≤ 45°C T80°C



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Ex ec installation:

General installation instructions:
The sensor circuit is not intrinsically isolated from the supply output circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500 VAC during 1 minute.

The enclosure must be connected to the potential matching line.

If the transmitter is physically connected to a possible source of heating or cooling, e.g. by mounting to a process pipe or a temperature sensor, the temperature at the point of connection shall be within the ambient temperature range as given in the certificate or in this manual.

Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

For installation of 7501A in zone 0 / EPL Ga, the transmitter must be installed such, that even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

Protection degree of IP 54 according to IEC 60529 is achieved if certified cable glands or conduit entry devices are used that are suitable for the application and correctly installed.

Protection degree of IP 68 according to IEC 60529 is only achieved if certified cable glands or conduit entry devices are used that are suitable for the application and correctly installed with sealing washers or Loctite sealant added to the threads of the sensor, blanking elements and cable glands.

For group III (dust), electrostatic charging of the paint layer shall be avoided.

Certificate IECEx DEK 15.0039 X
Marking Ex ec IIC T6, T4 Gc
Ex ec IIC T6, T4 Gc
Ex ec IIC T100°C Dc

Standards: IEC 60079-0:2017, IEC 60079-11:2011, IEC 60079-2:2017

Type of protection Ex ec
O-ring Sealing: Silicone
T4: -40 ≤ Ta ≤ 85°C Umax 35V (7501A)
T4: -40 ≤ Ta ≤ 80°C Umax 35V (7501B)
T6: -40 ≤ Ta ≤ 55°C Umax 24V
T6: -40 ≤ Ta ≤ 43°C Umax 35V

Type of protection Ex ic
T4: -40 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -40 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -40 ≤ Ta ≤ 60°C T85°C

O-ring Sealing: FKM
T4: -20 ≤ Ta ≤ 85°C Umax 35V (7501A)
T4: -20 ≤ Ta ≤ 80°C Umax 35V (7501B)
T6: -20 ≤ Ta ≤ 55°C Umax 24V
T6: -20 ≤ Ta ≤ 43°C Umax 35V

Hazardous area
Zone 2, 22

Non Hazardous Area
T4: -40 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -40 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -40 ≤ Ta ≤ 55°C T85°C
T6: -20 ≤ Ta ≤ 43°C Umax 35V



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Ex ec, ic installation:

Installation of equipment shall take place under dry and clean conditions and the equipment may not be opened for maintenance in uncontrolled environment.

For Ex ic installation in uncontrolled environment the module must be installed with a protection degree of IP54.

For Ex ec installation in a pollution degree 2 environment the module must be installed with a minimum protection degree of IP54.

Protection degree of IP 54 according to EN 60529 is achieved if certified cable glands or conduit entry devices are used that are suitable for the application and correctly installed.

For Ex ec installation in an uncontrolled environment the module must be installed with a minimum protection of IP68.

Protection degree of IP 68 according to EN 60529 is only achieved if certified cable glands or conduit entry devices are used that are suitable for the application and correctly installed with sealing washers or Loctite sealant added to the threads of the sensor, blanking elements and cable glands.

For an ambient temperature exceeding 70°C, heat resistant cables and cable glands suitable for at least 90°C shall be used.

If the transmitter is physically connected to a possible source of heating or cooling, e.g. by mounting to a process pipe or a temperature sensor, the temperature at the point of connection shall be within the ambient temperature range as given in this certificate.

Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

The enclosure must be connected to the potential matching line.

Applied screw terminal torque is max 0.4 Nm on all terminals.

For group III (dust), electrostatic charging of the paint layer shall be avoided.

Certificate IEC DEK 15.0039 X
Marking Ex ec IIC T6, T4 Gb
Ex ic IIC T100°C Db

Standards: IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-31:2013

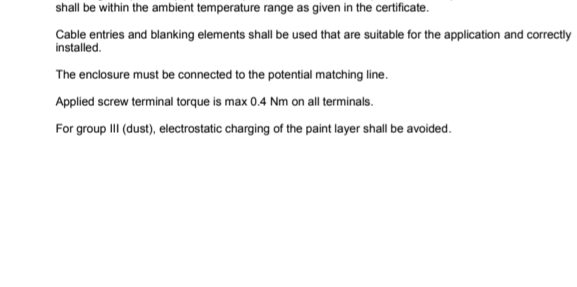
Type of protection Ex db
T4 T5: -40 ≤ Ta ≤ 85°C (7501A)
T4 T5: -40 ≤ Ta ≤ 80°C (7501B)
T6: -40 ≤ Ta ≤ 70°C

Type of protection Ex ic
O-ring Sealing: Silicone
T4: -40 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -40 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -40 ≤ Ta ≤ 70°C T85°C

O-ring Sealing: FKM
T4: -20 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -20 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -20 ≤ Ta ≤ 70°C T85°C

Hazardous area
Zone 1, 2, 21, 22

Non Hazardous Area



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Ex db, tb installation:

Certificate IEC DEK 15.0039 X
Marking Ex db IIC T6, T4 Gb
Ex ic IIC T100°C Db

Standards: IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-31:2013

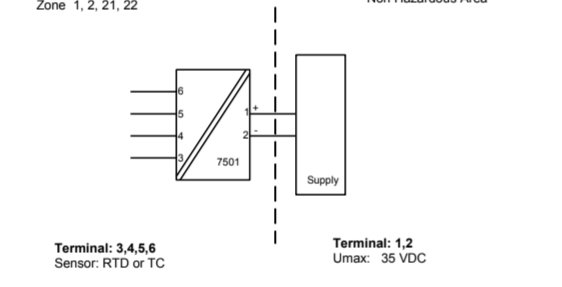
Type of protection Ex db
T4 T5: -40 ≤ Ta ≤ 85°C (7501A)
T4 T5: -40 ≤ Ta ≤ 80°C (7501B)
T6: -40 ≤ Ta ≤ 70°C

Type of protection Ex tb
O-ring Sealing: Silicone
T4: -40 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -40 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -40 ≤ Ta ≤ 70°C T85°C

O-ring Sealing: FKM
T4: -20 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -20 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -20 ≤ Ta ≤ 70°C T85°C

Hazardous area
Zone 1, 2, 21, 22

Non Hazardous Area



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FM Installation drawing 7501

For safe installation of 7501 the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

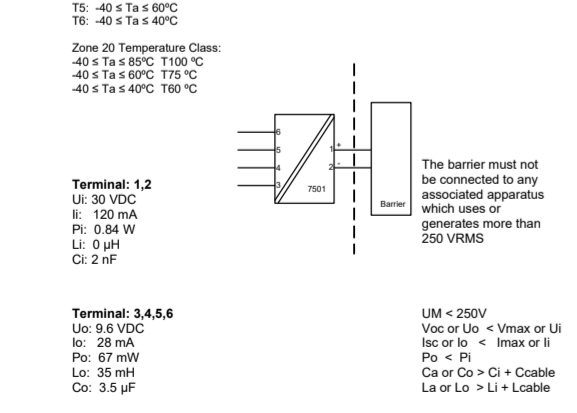
Pour une mise en œuvre de 7501 en toute sécurité, les préconisations ci-dessous doivent être observées. Le module doit être mis en œuvre par du personnel qualifié familier avec les Lois, Directives et Normes, nationales et internationales, qui s'appliquent à la zone d'installation.

Intrinsic safe installation:

Hazardous classified Location Class I, II, III, Division 1, Groups, ABCDEFG Class I, Zone 0, IIC, Zone 20

Non classified Location
T4: -40 ≤ Ta ≤ 85°C
T4: -40 ≤ Ta ≤ 80°C
T6: -40 ≤ Ta ≤ 40°C

Zone 20 Temperature Class:
-40 ≤ Ta ≤ 85°C T100 °C
-40 ≤ Ta ≤ 80°C T75 °C
-40 ≤ Ta ≤ 40°C T80 °C

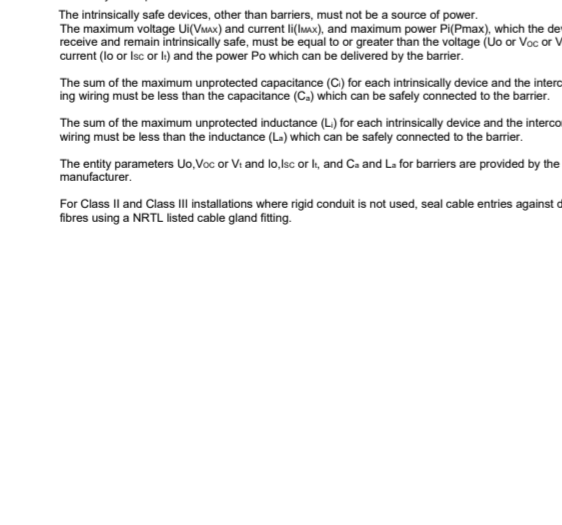


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The entry concept
The Transmitter must be installed according to National Electrical Code (ANSI-NFPA 70) and shall be installed with the enclosure, mounting, and spacing segregation requirement of the ultimate application.

Equipment that is FM-approved for intrinsic safety may be connected to barriers based on the ENTITY CONCEPT. This concept permits interconnection of approved transmitters, meters and other devices in combinations which have not been specifically examined by FM, provided that the agency's criteria are met. The combination is then intrinsically safe, if the entry concept is acceptable to the authority having jurisdiction over the installation.

The entity concept criteria are as follows:
The intrinsically safe devices, other than barriers, must not be a source of power.
The maximum voltage (U_{IVmax}) and current (I_{IVmax}), and maximum power (P_{IVmax}), which the device can receive and remain intrinsically safe, must be equal to or greater than the voltage (U_o or V_{oc} or V_i) and current (I_o or I_{sc} or I_i) and the power P_o which can be delivered by the barrier.
The sum of the maximum unprotected capacitance (C) for each intrinsically device and the interconnecting wiring must be less than the capacitance (C_o) which can be safely connected to the barrier.
The sum of the maximum unprotected inductance (L) for each intrinsically device and the interconnecting wiring must be less than the inductance (L_o) which can be safely connected to the barrier.
The entry parameters U_o/V_{oc} or V_i and I_o/I_{sc} or I_i, and C_o and L_o for barriers are provided by the barrier manufacturer.
For Class II and Class III installations where rigid conduit is not used, seal cable entries against dust and fibres using a NRTL listed cable gland fitting.



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Ex ec, ic installation:

Certificate IECEx DEK 15.0039 X
Marking Ex ec IIC T6, T4 Gc
Ex ec IIC T6, T4 Gc
Ex ec IIC T100°C Dc

Standards: IEC 60079-0:2017, IEC 60079-11:2011, IEC 60079-2:2017

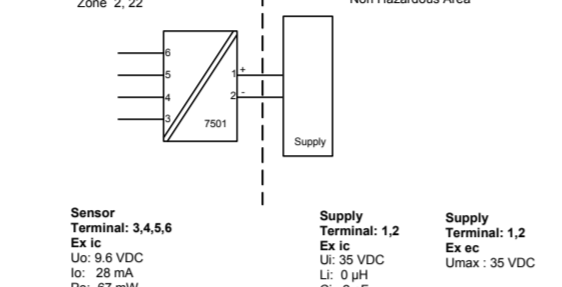
Type of protection Ex ec
O-ring Sealing: Silicone
T4: -40 ≤ Ta ≤ 85°C Umax 35V (7501A)
T4: -40 ≤ Ta ≤ 80°C Umax 35V (7501B)
T6: -40 ≤ Ta ≤ 55°C Umax 24V
T6: -40 ≤ Ta ≤ 43°C Umax 35V

Type of protection Ex ic
T4: -40 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -40 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -40 ≤ Ta ≤ 60°C T85°C

O-ring Sealing: FKM
T4: -20 ≤ Ta ≤ 85°C Umax 35V (7501A)
T4: -20 ≤ Ta ≤ 80°C Umax 35V (7501B)
T6: -20 ≤ Ta ≤ 55°C Umax 24V
T6: -20 ≤ Ta ≤ 43°C Umax 35V

Hazardous area
Zone 2, 22

Non Hazardous Area
T4: -40 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -40 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -40 ≤ Ta ≤ 55°C T85°C
T6: -20 ≤ Ta ≤ 43°C Umax 35V



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Ex db, tb installation:

No modification to the enclosure is allowed by the customer except as mentioned in the manual or installation drawing.
Flame proof joints are not intended to be repaired.
The transmitter is intended, either to be connected via a cable, or to be mounted directly onto a temperature sensing probe.
Only IECEx equipment certified sensors, suitable for the application and correctly installed, may be mounted directly onto the transmitter without additional certification of the combination.
If the transmitter is physically connected to a possible source of heating or cooling, e.g. by mounting to a process pipe or a temperature sensor, the temperature at the point of connection shall be within the ambient temperature range as given in the certificate. The sensor shall be suitable for use as entry device on an Ex d enclosure and shall not add volume to the 7501 enclosure. The thread of the sensor must be in compliance with IEC60079-1 / IEC60079-31.

Unused cable entries must be sealed by the blanking elements 8550-xxx and 8551-xxx supplied with the 7501 or Ex d and / or Ex ic certified blanking elements suitable for the application.
Only Ex d and / or Ex ic certified cable and cable glands shall be used that are suitable for the application and correctly installed.
Protection degree of IP 54 according to IEC 60529 is achieved if Ex d certified cable glands or conduit entry devices are used that are suitable for the application and correctly installed.
Protection degree of IP 68 according to IEC 60529 is only achieved if Ex d certified cable glands or conduit entry devices are used that are suitable for the application and correctly installed with sealing washers or Loctite sealant added to the threads of the sensor, blanking elements and cable glands.
The display cover must be screwed all the way in and the safety catch must be fastened before putting into service. Do not open display cover until 30 minutes after disconnecting power to the equipment allowing internal capacitors to discharge, or do not open display cover unless area is known to be safe.
For an ambient temperature exceeding 70°C, heat resistant cables and cable glands suitable for at least 90°C shall be used.
The enclosure must be connected to the potential matching line.
When the process temperature range exceeds the service temperature range it shall be verified by on-site temperature measurements, taking the worst case conditions into account, that the service temperature does not exceed the range of the module.
For group III (dust), electrostatic charging of the paint layer shall be avoided.

Certificate IEC DEK 15.0039 X
Marking Ex db IIC T6, T4 Gb
Ex ic IIC T100°C Db

Standards: IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-31:2013

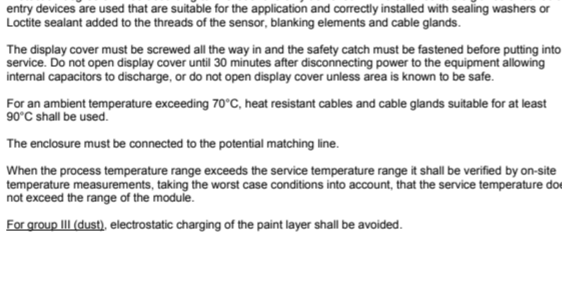
Type of protection Ex db
T4 T5: -40 ≤ Ta ≤ 85°C (7501A)
T4 T5: -40 ≤ Ta ≤ 80°C (7501B)
T6: -40 ≤ Ta ≤ 70°C

Type of protection Ex tb
O-ring Sealing: Silicone
T4: -40 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -40 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -40 ≤ Ta ≤ 70°C T85°C

O-ring Sealing: FKM
T4: -20 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -20 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -20 ≤ Ta ≤ 70°C T85°C

Hazardous area
Zone 1, 2, 21, 22

Non Hazardous Area



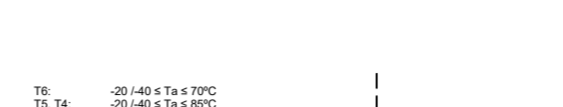
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Explosion proof / Dust ignition proof installation

Hazardous area Class I, II, III Division 1, Groups ABCDEFG Class I Zone 1, Ex/iaEx d IIC T6

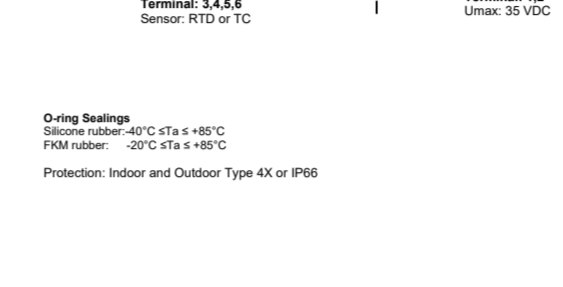
Non Hazardous Area

T6: -20/40 ≤ Ta ≤ 70°C
T5, T4: -20/40 ≤ Ta ≤ 85°C



O-ring Sealings
Silicone rubber: -40°C ≤ Ta ≤ +85°C
FKM rubber: -20°C ≤ Ta ≤ +85°C

Protection: Indoor and Outdoor Type 4X or IP68



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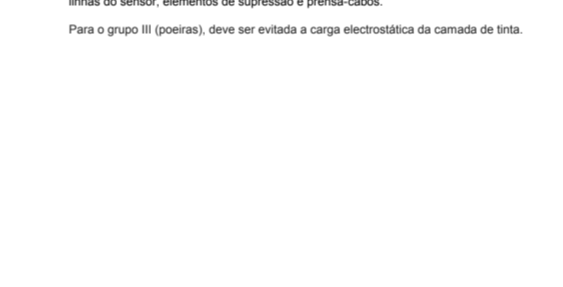
Instalação do Ex ia
Instruções de instalação gerais
O circuito do sensor não é intrinsecamente galvanicamente isolado do circuito de saída de alimentação. Contudo, a isolamento galvanica entre os circuitos é capaz de resistir a teste de tensão de 500Vdc durante 1 minuto.
O equipamento deve ser conectado à linha potencial correspondente
Se o transmissor estiver fisicamente conectado a uma possível fonte de calor ou resfriamento, por exemplo, através da montagem de um tubo de processo ou sensor de temperatura, a temperatura no ponto de conexão deve estar entre a faixa de temperatura ambiente determinada no certificado ou neste manual.
As entradas dos cabos e elementos de supressão devem ser usadas adequadamente para a aplicação e instalados corretamente.
Para instalação 7501A em zona 0 / EPL Ga, se aplicam as seguintes instruções:
O transmissor deve ser instalado de modo que, mesmo em um evento raro de incidente, fontes de ignição devido a impactos e fricção, faíscas sejam evitadas.
O grau de proteção do IP 54 de acordo com a ABNT NBR IEC 60529 é alcançado se o certificado prensa-cabos ou dispositivos de entrada de conduto são usados e adequados para a aplicação e instalados corretamente.
O grau de proteção do IP 68 de acordo com a ABNT NBR IEC 60529 é apenas alcançado se o certificado prensa-cabos ou dispositivos de entrada de conduto são usados e adequados para a aplicação e instalados corretamente com selos de vedação ou selante Loctite adicionados para as linhas do sensor, elementos de supressão e prensa-cabos.
Para o grupo III (poeiras), deve ser evitada a carga eletrostática da camada de tinta.

Certificate IEC DEK 15.0039 X
Marking Ex ec IIC T6, T4 Gc
Ex ic IIC T100°C Dc

Standards: IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-31:2013

Áreas classificadas
Zona 2, 22

Áreas não classificadas



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2023-10-03	V5R0	TORO	26

Instalação Ex tb, Ex db:
Certificado DEKRA 23.0012X
Marca Ex db IIC T6, T4 Gb
Ex tb IIC T100°C Db

Normas: ABNT NBR IEC 60079-0:2020 Versão Corrigida:2023
ABNT NBR IEC 60079-1:2014 Versão Corrigida:2023
ABNT NBR IEC 60079-31:2014 Versão Corrigida:2021

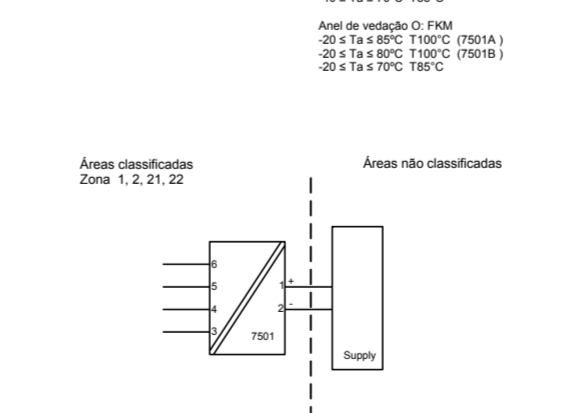
Ex db:
T4 T5: -40 ≤ Ta ≤ 85°C (7501A)
T4 T5: -40 ≤ Ta ≤ 80°C (7501B)
T6: -40 ≤ Ta ≤ 70°C

Ex tb:
Anel de vedação O: Silicone
T4: -40 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -40 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -40 ≤ Ta ≤ 70°C T85°C

Anel de vedação O: FKM
T4: -20 ≤ Ta ≤ 85°C T100°C (7501A)
T4: -20 ≤ Ta ≤ 80°C T100°C (7501B)
T6: -20 ≤ Ta ≤ 70°C T85°C

Áreas classificadas
Zona 1, 2, 21, 22

Áreas não classificadas



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Explosion proof / Dust ignition proof installation

The enclosure must be sealed with approved sealing plugs.
Certified cable and cable glands shall be used that are suitable for the application and correctly installed or the cables must be run in conduit.
For an ambient temperature exceeding 70 °C, heat resistant cables and cable glands suitable for at least 90°C shall be used.
For process temperature above 85°C or below -20/40°C installer must verify by measurements that the service temperature of the 7501 module is held within this range taking worst conditions into account.
The display cover must be screwed all the way in and the safety catch must be fastened before operation.
Protection degree of IP 68 / TYPE EX is only achieved if certified cable glands or conduit entry devices are used that are suitable for the application and correctly installed with sealing washers or Loctite sealant is added to the threads of the sensor, blanking elements and cable glands.
The enclosure must be connected to the potential matching line.
For installation in Canada the following must be taken into account:
All openings for conduit and sensor connection must be in NPT threads.
For Class I Group A installation, conduit seal is required within 18 inches of the enclosure.
For Class I Zone I installation, conduit seal is required within 18 inches of the enclosure.

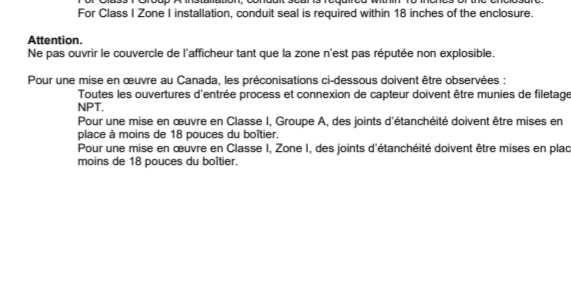
Attention:
Ne pas ouvrir le couvercle de l'afficheur tant que la zone n'est pas réputée non explosible.
Pour une mise en œuvre au Canada, les préconisations ci-dessous doivent être observées :
Toutes les ouvertures d'entrée process et connexion de capteur doivent être munies de filetage NPT.
Pour une mise en œuvre en Classe I, Groupe A, des joints d'étanchéité doivent être mis en place à moins de 18 pouces du boîtier.
Pour une mise en œuvre en Classe I, Zone I, des joints d'étanchéité doivent être mis en place à moins de 18 pouces du boîtier.

Certificate DEKRA 23.0012X
Marca Ex ec IIC T6, T4 Ga
Ex ia IIC T100°C Dc
Ex ia I Ma (apenas para Tipo 7501B...)

Normas: ABNT NBR IEC 60079-0:2020 Versão Corrigida:2023
ABNT NBR IEC 60079-1:2014 Versão Corrigida:2017

Áreas classificadas
Zona 0, 1, 2, 20, 21, 22, Mines

Áreas não classificadas



Revision date:	Version Revision	Page:
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Instalação Ex ic, ec:

Certificado DEKRA 23.0012X
Marca Ex ec IIC T6, T4 Gc
Ex