

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 d'observer le raccordement du module aux techniciens qualifiés qui comprennent les termes techniques...
WARNUNG Das Gerät darf nur von qualifizierten Technikern angeschlossen werden...

Segurança DEKRA 15ATX0058 X
Compulsório INMETRO

EU DECLARATION OF CONFORMITY
PR electronics A/S, Lerbakken 10, DK-8410 Rønde

7501ATEX Installation
For safe installation of 7501 the following must be observed. The module shall only be installed by qualified personnel...

Ex ia installation:
ATEX Certificate: DEKRA 15ATX0058 X
Hazardous area Zone 0, 1, 2, 21, 22, (Mines)

Ex ec, ic installation:
ATEX Certificate: DEKRA 15ATX0058 X
Hazardous area Zone 2, 22

Ex db, tb installation:
ATEX Certificate: DEKRA 15ATX0058 X
Hazardous area Zone 2, 22

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

Spécifications électriques
Température de fonctionnement -40°C à +85°C
Avec joint en silicone -20°C à +85°C

Elektrische Daten
Anwendungstemperatur mit Silikon-O-Ring -40°C bis +85°C
Temperatur de stockage -40°C à +85°C

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Mekaniske specifikationer
Diameter 110 mm
Aluminium (AL) 1,3 kg
Rustfrit stål (RF) 2,8 kg
Ledingsskvadrat 0,13 -1,5 mm² / AWG

Mechanical specifications
Dimensions, H x W x D: 110 mm
Aluminum (AL) 1.3 kg
Stainless steel (RF) 2.8 kg

Mechanische Spezifikationen
Durchmesser 110 mm
Abmessungen, H x B x T: 110 mm
Aluminium (AL) 1,3 kg

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Indgangsspecifikationer
Indgang for RTD-type: P150, P160, P200, P500, P1000, N150, N100, N120, N1000
Indgang for RTD-type: P150, P160, P200, P500, P1000, N150, N100, N120, N1000

Spécifications d'entrée
Entrée pour types RTD: P150, P160, P200, P500, P1000, N150, N100, N120, N1000

Elektrische Daten
Messbereich, Spannung -800...+800 mV
Min. Messbereich 2,5 mV

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Indgang for TE-type: B, E, J, K, L, N, R, S, T, U, W3, W5, Lr
Indgang for TE-type: B, E, J, K, L, N, R, S, T, U, W3, W5, Lr

Spécifications d'entrée
Entrée pour types TE: B, E, J, K, L, N, R, S, T, U, W3, W5, Lr

Elektrische Daten
Messbereich, Spannung -800...+800 mV
Min. Messbereich 2,5 mV

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Godkendelser
EU RO marine MRA0000009
Observed authority requirements
EMC 2014/30/EU & UK SI 2016/1091

Approvals
EU RO marine MRA0000009
Observed authority requirements
EMC 2014/30/EU & UK SI 2016/1091

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7501 IECEx Installation 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.

Ex ia installation: Certificate IECEx DEK 15.0039 X Marking Ex ia IIC T6, T4 Ga Ex ia IIC T100°C Dc Ex ia I Ma (7501B) Standards: IEC 60079-0:2017, IEC 60079-11:2011 Hazardous area Zone 0, 1, 2, 21, 22, Minas Non Hazardous Area T4: -40 ≤ Ta ≤ 85°C T100°C (7501A) T5: -40 ≤ Ta ≤ 85°C T110°C (7501B) T6: -40 ≤ Ta ≤ 60°C T75 °C T7: -40 ≤ Ta ≤ 60°C T100 °C T8: -40 ≤ Ta ≤ 45°C T80 °C

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.

Ex ec, ic installation: Certificate IECEx DEK 15.0039 X Marking Ex ec IIC T6, T4 Gc Ex ic IIC T100°C Dc Standards: IEC 60079-0:2017, IEC 60079-11:2011, IEC 60079-2:2017 Type of protection Ex ec Type of protection Ex ic O-ring Sealing - Silicone T4: -40 ≤ Ta ≤ 85°C T100°C (7501A) T5: -40 ≤ Ta ≤ 85°C T110°C (7501B) T6: -40 ≤ Ta ≤ 55°C Umax 24V T7: -40 ≤ Ta ≤ 45°C Umax 24V T8: -40 ≤ Ta ≤ 45°C Umax 35V O-ring Sealing - FKM T4: -20 ≤ Ta ≤ 85°C T100°C (7501A) T5: -20 ≤ Ta ≤ 85°C T110°C (7501B) T6: -20 ≤ Ta ≤ 50°C Umax 24V T7: -20 ≤ Ta ≤ 45°C Umax 35V T8: -20 ≤ Ta ≤ 45°C Umax 35V

Ex ec, ic installation: Certificate IECEx DEK 15.0039 X Marking Ex ec IIC T6, T4 Gc Ex ic IIC T100°C Dc Standards: IEC 60079-0:2017, IEC 60079-11:2011, IEC 60079-2:2017 Type of protection Ex ec Type of protection Ex ic

Hazardous area Zone 2, 22 Non Hazardous Area Terminal: 3,4,5,6 Sensor: RTD or TC Supply Terminal: 1,2 Umax: 35 VDC

Explosion proof / Dust ignition proof installation: Hazardous area Class I, II, III Division 1, Groups ABCDEFG Class I Zone 1, ExIAXd IIC T6

Explosion proof / Dust ignition proof installation: Hazardous area Class I, II, III Division 1, Groups ABCDEFG Class I Zone 1, ExIAXd IIC T6 Non Hazardous Area Terminal: 1,2 Umax: 35 VDC

Explosion proof / Dust ignition proof installation: The enclosure must be installed such, that even in the event of rare incidents, ignition sources due to impact and friction, sparks are excluded.

Explosion proof / Dust ignition proof installation: Hazardous area Class I, II, III Division 1, Groups ABCDEFG Class I Zone 1, ExIAXd IIC T6 Non Hazardous Area Terminal: 1,2 Umax: 35 VDC

7501 Desenho de Instalação INMETRO: Para instalação segura de 7501 o seguinte deve ser observado. O módulo deve ser instalado, apenas por pessoas qualificadas as quais estão familiarizadas com as normas nacionais e internacionais, diretrizes e padrões (ABNT NBR IEC60079-14) que se aplicam a esta área.

Instalação Segura do Ex ia installation: Certificado DEKRA 15.0014X Marca Ex ia IIC T6, T4 Ga Ex ia IIC T100°C Da Ex ia I Ma (peças para Tipo 7501B... 2) Normas: ABNT NBR IEC 60079-0: 2013, ABNT NBR IEC 60079-11: 2013, ABNT NBR IEC 60079-26: 2008

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.

Ex ec, ic installation: 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 Type of protection Ex ec Type of protection Ex ic

Ex db, tb installation: Certificate IEC DEK 15.0039 X Marking Ex db IIC T6, T4 Gb Ex tb IIC T100°C Db Standards: IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-31:2013 Type of protection Ex db Type of protection Ex tb

Ex db, tb installation: Hazardous area Zone 1, 2, 21, 22 Non Hazardous Area Terminal: 3,4,5,6 Sensor: RTD or TC Terminal: 1,2 Umax: 35 VDC

Ex db, tb installation: No modification to the enclosure is allowed by the customer except as mentioned in the manual or installation drawing.

Ex db, tb installation: Hazardous area Zone 1, 2, 21, 22 Non Hazardous Area Terminal: 3,4,5,6 Sensor: RTD or TC Terminal: 1,2 Umax: 35 VDC

Instalação do Ex ia: Instruções de instalação gerais: O circuito do sensor não é intrinsecamente isolado do circuito de saída de alimentação.

Instalação do Ex ia, Ex na: Certificado DEKRA 15.0014X Marca Ex na IIC T6, T4 Gc Ex ic IIC T6, T4 Gc Normas: ABNT NBR IEC 60079-0: 2013, ABNT NBR IEC 60079-11: 2013, ABNT NBR IEC 60079-15: 2012

Instalação Ex ic, Ex na: Certificado DEKRA 15.0014X Marca Ex na IIC T6, T4 Gc Ex ic IIC T6, T4 Gc Normas: ABNT NBR IEC 60079-0: 2013, ABNT NBR IEC 60079-11: 2013, ABNT NBR IEC 60079-15: 2012

Instalação Ex ic, Ex na: Terminal do sensor: 3,4,5,6 Ex ic Uo: 9,6 VDC Ii: 28 mA Po: 67 mW Lr: 35 mH Cr: 2 nF

Instalação Ex ic, Ex na: Para uma temperatura ambiente excedendo 70 °C, cabos resistentes ao calor e prensa-cabos adequados para pelo menos 90 °C devem ser usados.

Instalação Ex ic, Ex na: Terminal do sensor: 3,4,5,6 Ex ic Uo: 9,6 VDC Ii: 28 mA Po: 67 mW Lr: 35 mH Cr: 2 nF

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.

Intrinsic safe installation: Hazardous classified Location Class I, II, III Division 1, Groups, ABCDEFG Class I, Zone 0, IIC, Zone 20 Non classified Location Terminal: 1,2 Uo: 30 VDC Ii: 120 mA Po: 0.84 W Lr: 0 µH Cr: 2 nF

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.

Intrinsic safe installation: Hazardous classified Location Class I, II, III Division 2, Groups, ABCDFG Class I, Zone 1, IIC, Zone 20 Non classified Location Terminal: 3,4,5,6 Sensor: RTD or TC Terminal: 1,2 Umax: 35 VDC

Non Incendive installation: Hazardous classified Location Class I, II, III, Division 2, Groups, ABCDFG Class I, Zone 2, IIC Non classified Location Terminal: 3,4,5,6 Sensor: RTD or TC

Non Incendive installation: Hazardous area Zone 1, 2, 21, 22 Non Hazardous Area Terminal: 3,4,5,6 Sensor: RTD or TC Terminal: 1,2 Umax: 35 VDC

Instalação Ex tb, Ex db: Certificado DEKRA 15.0014X Marca Ex db IIC T6, T4 Gc Ex tb IIC T100°C Dc Normas: ABNT NBR IEC 60079-0: 2013, ABNT NBR IEC 60079-11: 2014, ABNT NBR IEC 60079-31: 2014

Instalação Ex tb, Ex db: Hazardous area Zone 1, 2, 21, 22 Non Hazardous Area Terminal: 3,4,5,6 Sensor: RTD or TC Terminal: 1,2 Alimentação: 35 VDC

Instalação Ex tb, Ex db: O transmissor é destinado, quer para ser ligado através de um cabo, ou pode ser montado directamente sobre uma fonte de detecção de temperatura.

Instalação Ex tb, Ex db: Terminal do sensor: 3,4,5,6 Ex ic Uo: 9,6 VDC Ii: 28 mA Po: 67 mW Lr: 45 mH Cr: 2 nF

Input: RTD, 2-wire RTD, 3-wire RTD, 4-wire TC, Internal CJC

Input: Resistance, 2-wire Resistance, 3-wire mV TC, external CJC mV Resistance, 4-wire RTD, difference or average TC, difference or average, with internal CJC TC, difference or average, with external CJC