

Certificate of Compliance

Certificate: 1002882

Master Contract: 183951

Project: 2052425

Date Issued: 2008/12/19

Issued to: Smar Equipamentos Industriais Ltda.

Rua Dr Pio Dufles 1350
Sertaozinho
Estado de Sao Paulo, São Paulo .
Brazil
Attention: Mr. Ricardo Leite

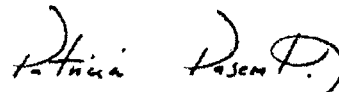
The products listed below are eligible to bear the CSA Mark shown



Issued by: Ron Wildish



Authorized by: Patricia Pasemko, Operations
Manager



PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Div. 1, Groups B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1:

Models FI302, FI303, IF302 and IF303 Fieldbus Converters; input supply 12-42V dc, 4-20mA; Enclosure Type 4/4X.

Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups E, F and G; Class III:

Models FI302, FI303, IF302 and IF303 Fieldbus Converters; input supply 12-42V dc, 4-20mA; Enclosure Type 4/4X.



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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:

Model FI 302 and FI303 Fieldbus Converter; supply 12-42V dc, 4-20mA; Enclosure Type 4/4X; non-incendive with Fieldbus / FNICO Entity parameters @ Terminals + and - : $V_{max} = 24V$, $I_{max} = 570 \text{ mA}$, $P_{max} = 9.98 \text{ W}$, $C_i = 5 \text{ nF}$, $L_i = 12 \text{ uH}$; @ Terminals 1 - 4: $V_{max} = 30V$, $I_{max} = 110\text{mA}$, $C_i = 5 \text{ nF}$, $L_i = 12 \text{ uH}$; when connected through CSA Certified Safety Barriers as per SMAR Installation drawing 102A0559; Temp. Code T3C.

Model IF 302 and IF303 Fieldbus Converter; supply 12-42V dc, 4-20mA; Enclosure Type 4/4X; non-incendive with Fieldbus / FNICO Entity parameters @ Terminals + and - : $V_{max} = 24V$, $I_{max} = 570 \text{ mA}$, $P_{max} = 9.98 \text{ W}$, $C_i = 5 \text{ nF}$, $L_i = 12 \text{ uH}$; @ Terminals 1 - 4: $V_{max} = 30V$, $I_{max} = 110\text{mA}$, $C_i = 5 \text{ nF}$, $L_i = 12 \text{ uH}$; when connected through CSA Certified Safety Barriers as per SMAR Installation drawing 102A0558; Temp. Code T3C.

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - 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:

Model FI 302 and FI303 Fieldbus Converter; supply 12-42V dc, 4-20mA; Enclosure Type 4/4X; intrinsically safe with Fieldbus/FISCO Entity parameters @ Terminals + and - : $V_{max} = 24V$, $I_{max} = 380\text{mA}$, $P_{max} = 5.32\text{W}$, $C_i = 5 \text{ nF}$, $L_i = 10 \text{ uH}$; @ Terminals 1 - 4: $V_{max} = 30V$, $I_{max} = 110\text{mA}$, $C_i = 5 \text{ nF}$, $L_i = 12 \text{ uH}$; when connected through CSA Certified Safety Barriers as per SMAR Installation drawing 102A0559; Temp. Code T3C.

Model IF 302 and IF303 Fieldbus Converter; supply 12-42V dc, 4-20mA; Enclosure Type 4/4X; intrinsically safe with Fieldbus/FISCO Entity parameters @ Terminals + and - : $V_{max} = 24V$, $I_{max} = 380\text{mA}$, $P_{max} = 5.32\text{W}$, $C_i = 5 \text{ nF}$, $L_i = 10 \text{ uH}$; @ Terminals 1 - 4: $V_{max} = 30V$, $I_{max} = 110\text{mA}$, $C_i = 5 \text{ nF}$, $L_i = 12 \text{ uH}$; when connected through CSA Certified Safety Barriers as per SMAR Installation drawing 102A0558; Temp. Code T3C.

Note: Only models with stainless steel external fittings are Certified as Type 4X.

APPLICABLE REQUIREMENTS

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

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

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



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

CSA Std 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

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



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

Project	Date	Description
2052425	2008/12/19	Update to include; addition of FISCO parameters, addition of Non-Incendive versions, alternative enclosure material alloys and numerous drawing and report text revisions.
1547435	2004/04/21	Update to Cover Revised Diode and Resistor Construction - Legacy File LR 99673
1515074	2004/01/30	Alternate drawings for bill of materials and removal of zener diode Z3

History

1279802 Jan 30, 2002 Update to Reports 1002882, 1110996 and 1111005 to cover drawing revisions.

1165308 May 17, 2001 Update to include the statement 'Seal not Required' on marking drawings, and addition of models FI303 and IF303.

1002882 July 2\2000 Original Certification – Models FI 302 and IF 302 Fieldbus Converter Transmitters