

FM Approvals 1151 Boston-Providence Turnpike P.O. Box 9102 Norwood, MA 02062 USA T: **781 762 4300** F: 781 762 9375 www.fmglobal.com

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

LD292-abc-de-fH1. Smart Pressure Transmitter.

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XP /I /1 /ABCD/T4 Ta=60°C; DIP / II,III /1 /EFG/T4 Ta=60°C; IS / I,II,III /1 /ABCDEFG — 102A0078;

Entity; NI /I /2 /ABCD/T4 Ta=60°C; Type 4X/6/6P

Entity Parameters: V max =24V, I max = 250 mA, C i =5nF, L i = 8 μ H.

a = Range: M2, M3, M4 or M5.

b = Diaphragm material and fill fluid: 1I, 2I, 3H or 4H.

c = Local indicator: 0 or 1.

d = Wetted O-rings material: 1, G, H or M.

e = Electrical connection 0, A or B. (A or B for intrinsic safe version only).

f = Mounting bracket 0, 1, 2 or 7.

Equipment Ratings:

Explosionproof for Class I, Division 1, Groups A, B, C and D; Dust-ignitionproof for Class II and III, Division 1, Groups E, F and G; Non-incendive for Class I, Division 2, Groups A, B, C and D; and Intrinsically safe for Class I, II and III, Division 1, Groups A, B, C, D, E, F and G hazardous (classified) locations in accordance with Entity requirements and Control Drawing 102A0078; Indoor and Outdoor (Type 4X/6/6P) locations.

Approved for:

Smar Equipamentos Industriais Ltda Av. Dr. Antonio Furlan Jr. 1028 Sertaozinho - SP CEP 14.160, Brazil



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

Class 3600	1989
Class 3610	1988
Class 3611	1986
Class 3615	1989
Class 3810	1989
ANSI/NEMA 250	1991

Original Project ID: 3014713

FM Approval Granted: July 9, 2002

Subsequent Revision Reports / Date FM Approval Amended

FM Global Technologies LLC

Nicholas P. Ludlam

Technical Team Manager

July 12, 2002

Date

An FM 610 bal Enterprise

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APPROVED PRODUCT/SPECIFICATION TESTED - REVISION REPORT OR ADDRESS/CONTACT CHANGE REPORT SENDER: Forward with updated drawings or other Additional forms may be FORWARD TO: appropriate change information to the attention requested by writing to the **FACTORY MUTUAL RESEARCH** of the Approvals Division. Original will be attention of the 1151 Boston-Providence Turnpike returned showing course of action taken. Factory Mutual Stock Room. P.O. Box 9102 Norwood MA 02062 Please type below: Attention of, Company Name, Address, City, State & Zip Code. Attention: Mr. Andrew Lozinski Date February 07, 2002 Attn: Dinamar S. de Souza FORWARD BY Smar Research Corp. Dinamar S. de Souza 4250 Veterans Memorial HWY Holbrook - NY Certification Products ZIP 11741 SIGNATHRE MODEL(S) AFFECTED LD302/TT302 Fax: 631-737-3892 Phone: 631-737-3111 PRODUCT(S) Fieldbus Pressure Transmitter LD302 / TT302 - Fieldbus Pressure and Temperature Transmitters Temperature Transmitter DOES THIS REVISION RESULT IN MODEL/TYPE NO. INDICATE FACTORY MUTUAL RESEARCH JOB CHANGE TO THE CURRENT APPROVAL GUIDE LISTING? TYES NO IDENTIFICATION(S) AFFECTED J.I. 4Y3A4.AX IF YES, EXPLAIN (USE SEPARATE SHEET IF REQUIRED): HAS THE MANUFACTURING LOCATION, LISTING ADDRESS, TELEPHONE NUMBER OR CONTACT PERSON CHANGED? IF YES, EXPLAIN BELOW: TYES NO DWG. NO. AFFECTED REVISION DETAILS REV. NEW DWG. NO. REV. Mechanical Drawing - LD292 101E-0061 00 - Mechanical Drawing - LD293 101E-0129 00 Control Drawing - LD292/293/302/303 102-A-0078 04 - Marking Plate - LD292 101A-4226 00 - Marking Plate - LD293 101A-4209 - Operation + Maint. Instr. Manual, LD292 - Operation + Haint. Justr- Manual, LD293

REASON FOR CHANGE(S)/COMMENTS:

In this Approval Report (J.I. 4Y3A4.AX) will include the Fieldbus Low Cost Pressure Transmitters Model LD292/293. Electronics boards are exactly the same approved under JI 4Y3A4.AX (LD302). Mechanical drawing, exactly the same enclosure approved under JI 4B9A4.AX (LD290/291) (DWG # 101E-0061-00 and DWG # 101E-0129-00).

Max 02 Apr 02

BELOW FOR FACTORY MUTUAL RESEARCH USE COMMENTS REVISION NOTICE NO. FORWARD APPROVAL/SPECIFICATION TESTED AGREEMENT Yes REVISION ACCEPTED

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Add the following new listings to the Approval Guide listing:

LD292-abc-de-fH1. Smart Pressure Transmitter.

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NI /I /2 /ABCD/T4 Ta=60°C; Type 4X/6/6P

Entity Parameters: V max = 24V, I max = 250 mA, C i = 5nF, L i = 8 μ H.

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