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:

FY290-ab-cde-f. Smart Valve Positioner.

IS/I,II,III /1/ABCDEFG/T4 Ta=60°C; Entity-102A0439; DIP/II,III/1/EFG/T4 Ta=60°C; NI/I/2/ABCD/T4 Ta=60°C; Type 4X; Entity Parameters: Vmax = 30Vdc, Imax = 110 mA, Ci = 8nF, Li = 12μ H

- a = Digital indicator 1 (with Digital Indicator).
- b = Mounting bracket 0 or 1.
- c = Electrical connections 0 (1/2-14 NPT), A (M20×1/2) or B (Pg 13.5 DIN).
- d = Type of actuator (not included) 1, 2, 3, 4, 5, 6, 7, 8 or Z.
- e = Indication gage 0, 1, 2, 3, 4, 5 or Z.
- f = Optional items H1 (316 SST Housing).

FY301-ab-cde-f. Smart Valve Positioner.

IS/I,II,III /1/ABCDEFG/T4 Ta=60°C; Entity-102A0439; DIP/II,III/1/EFG/T4 Ta=60°C; NI/I/2/ABCD/T4 Ta=60°C; Type 4X; Entity Parameters: Vmax = 30Vdc, Imax = 110 mA, Ci = 8nF, Li = 12μ H

- a = Digital indicator 0 (without Indicator) or 1 (with Digital Indicator).
- b = Mounting bracket 0 or 1.
- c = Electrical connections 0 ($\frac{1}{2}$ -14 NPT), A (M20 \times 1/2) or B (Pg 13.5 DIN).
- d = Type of actuator (not included) 1, 2, 3, 4, 5, 6, 7, 8 or Z.
- e = Indication gage 0, 1, 2, 3, 4, 5 or Z.
- f = Optional items H1 (316 SST Housing).

Equipment Rating:

Intrinsically safe for Class I, II and III, Division 1, Groups A, B, C, D, E, F and G in accordance with entity requirements and Control Document 102A0439; dust-ignitionproof for Classes II and III, Division 1, Groups E, F and G; nonincendive for Class I, Division 2, Group A, B, C and D hazardous (classified) outdoor (Type 4X) locations.



Factory Mutual Research

Approved for:

SMAR Equipamentos Industriais LTDA

Av. Dr. Antonio Furlan Jr. 1028

Sertaozinho - SP CEP 14.160, BRAZIL

This certifies that the equipment described has been found to comply with the following Factory Mutual Research Approval Standards:

Approval Standard Class 3600 - November 1998
Approval Standard Class 3610 - October 1999
Approval Standard Class 3611- October 1999
Approval Standard Class 3810 - March 1989, Including Supplement #1, 1995
ANSI/NEMA 250 - 1991

Original Approval Job Identification: 3009955

Approval Granted: July 20, 2001

Subsequent Revision Reports/Date Approval Amended:

None

Factory Mutual Research Corporation

Paris Stavrianidis
Assistant Vice President

Approvals Division

July 26, 200,

Date

APPROVED PRODUCT/SPECIFICATION TESTED - REVISION REPORT OR ADDRESS/CONTACT CHANGE REPORT



SENDER: Forward with updated drawings or other appropriate change information to the attention of the Approvals Division. Original will be returned showing course of action taken.

Additional forms may be requested by writing to the attention of the

Factory Mutual Stock Room.

FORWARD TO: FACTORY MUTUAL RESEARCH

Page 1 of 1

1151 Boston-Providence Turnpike P.O. Box 9102 Norwood MA 02062

Please type below	Attention of,	Company	Name,	Address,	City,	State 8	Zip Code.
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Attn: Ricardo Leite Smar Research Corp. 4250 Veterans Memorial HWY

Holbrook - NY ZIP 11741

Attention: Mr. Andrew Lozinski

April 15, 2002 FORWARD BY

Ricardo Leite

TITI F

Electronic Engineer

SIGNATURE

MODEL(S) AFFECTED

FY/290/301 Positioners

Phone: 631-737-3111

PRODUCT(S)

FY290/301 - POSITIONERS

Fax: 631-737-3892

DOES THIS REVISION RESULT IN MODEL/TYPE NO CHANGE TO THE CURRENT APPROVAL GUIDE LISTING?

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

INDICATE FACTORY MUTUAL RESEARCH JOB

IDENTIFICATION(S) AFFECTED

REV.

01

J.I. 3007267 J.I. 3009955

☐YES ☐NO

DWG. NO. AFFECTED

102B-0506

REVISION DETAILS

- Main Board - GLL1011 The Transil diode was changed from SMBJ6,5A to SM6T7V5A

- The Terminal Block A new option was included into item Filter 2nF 1000V 25A The bill of material annex to schematic drawing was excluded and general components and Term Assembl list was included

102B-0283 80 102B-0283 09 -

NEW DWG. NO.

102B-0506 LM102-0415 00

LM102-0161 04

REV.

02

REASON FOR CHANGE(S)/COMMENTS:

- The Transil diode was changed to reduce the leakage current in operational condition.
- * This new option of filter is more inexpensive. The material control system was changed to comply with production process.

	BELOW FOR FACTORY MUT
changes do not a flect safety. Die and ratings and new ZnF ope previously approved 4.8 nF ton the	odes have some size from the work.

REVISION REPORT J. I.

E01061-283-

FORWARD APPROVAL/SPECIFICATION TESTED AGREEMENT No Yes

REVISION ACCEPTED

EXAMINED BY

VIEWED BY