



Member of the FM Global Group

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

# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

**Model 18-LPIX. Loop Powered Indicator.**

**Models 18-212A-M37A, 18-812-M37A. RTD/Resistance Transmitter.**

**Models 18-215A-M37A, 18-811-M37A. Thermocouple/mV Transmitter.**

**Models 18-212A-M37-I, 18-812A-M37-I. Indicating RTD/Resistance Transmitter.**

**Model 18-215A-M37-I. Indicating Thermocouple/mV Transmitter.**

XP / I / I / BCD; DIP / II,III / I / EFG

**Model 18-215A or -811. Thermocouple/mV Transmitter.**

**Model 18-212A or -812. RTD/Resistance Transmitter.**

**Models 18-LPI, -LPIX, -LPI-SR, -LPIX-SR, -LPI-WT, -LPI-1V, -LPIX-1V, -SLPI, -SLPI-1V, -SLPI-SR, LD-LPI, LD-LPIX, -BL .Loop Powered Indicator.**

IS / I / I / ABCD — 515107 / I; Entity\*; NI / I / 2 / ABCD

\*Refer to Dwg. No. 515107 for Entity Parameters.

**SM-822P-1, SM-822-P-1T, SM822P-2, SM822R. Potentiometer/Rheostat Transmitter.**

IS / I / I / ABCD; T4; 515107 / J; Entity; NI / I / 2 / ABCD; T4

Entity Parameters:

VMax = -32 V, IMax = -150 mA, Ci = 0  $\mu$ fd, Li = 0 mH.

### Equipment Ratings:

Explosionproof for Class I, Division 1, Groups B, C and D; Dust-ignitionproof for Class II, Division 1, Groups E, F and G; Suitable for Class III, Division 1 indoor and outdoor, NEMA 4, Hazardous (Classified) Locations; Intrinsically Safe for Class I, Division 1, Groups A, B, C and D indoor Hazardous (Classified) Locations and Entity requirements in accordance with Devar Incorporated Control Drawing No. 515107; Nonincendive for Class I, Division 2, Groups A, B, C and D indoor Hazardous (Classified) Locations;

Approved for:

Devar Incorporated  
Bridgeport, CT 06605 USA

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

Original Project ID: 2Q1A6.AX

FM Approval Granted: October 26, 1988

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
3000231	July 9, 1998		
050826	10/19/05		

FM Global Technologies LLC

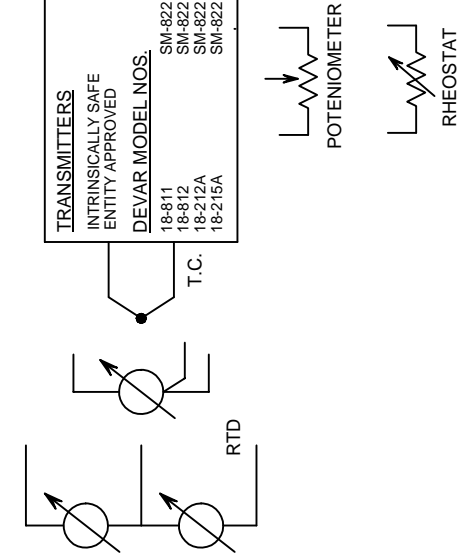
  
George A. Smith  
Assistant Vice President  
FM Approvals

19 October, 2005  
Date

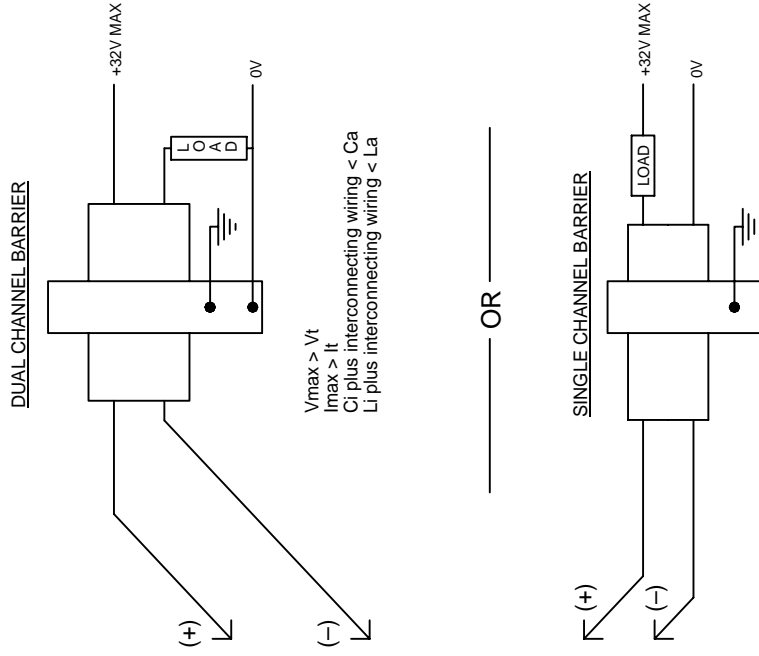
DWG NO. 515107 SH 1

REV	DATE	DESCRIPTION	APPROVED
H	02-08-95	ADD 18-SLPI, 18-SLPI-V AND 18-SLPI-SR, ECN 3081A	AG
I	01-22-98	ADD LD-LPI, ECN 3154	AG
J	09-09-99	ADD SM-822P-1, SM-822P-1-T, SM-822P-2 & SM-822R, ECN 3208	AG
K	09-13-05	ADD LD-LPIX & -BL BACKLIGHT OPTION, ECN 3319	AG
	04-22-91	RELEASE ECN 2826B	AG
	02-26-92	ADD 18-LPI-VT, ECN 3027	AG
	02-07-95	32V WAS 30V, ECN 3081	AG

**HAZARDOUS LOCATION**



**NON-HAZARDOUS LOCATION**



**NOTES:**

- HAZARDOUS LOCATION RATINGS: CLASS I, DIVISION 1, GROUPS A, B, C, D
- ENTITY PARAMETERS:  $V_{max} = 32\text{ V}$ ,  $I_{max} = 150\text{ mA}$ ,  $C_i = 0\text{ }\mu\text{F}$ ,  $L_i = 0\text{ mH}$
- INSTALLATION OF THE SYSTEM MUST BE IN ACCORDANCE WITH ANSI/ISA RP12.6
- CONTROL ROOM INSTRUMENTATION TO OPERATE AT LESS THAN 250V rms
- DO NOT CONNECT mA METER TO TRANSMITTER MONITOR TERMINALS UNLESS AREA IS KNOWN TO BE SAFE
- THE ABOVE UNITS ARE NONINCENDIVE FOR CLASS I, DIVISION 2, GROUPS A, B, C, D LOCATIONS WITH A  $V_{max}$  OF 32V. BARRIERS ARE NOT REQUIRED FOR DIVISION 2 OPERATION.
- NO REVISIONS WITHOUT PRIOR FACTORY MUTUAL APPROVAL

UNSPECIFIED DIMENSION TOLERANCE DECIMAL $\pm 0.005$ FRACTION $\pm 1/16$ " ANGLE $\pm 1/2$ DEGREE		CONTRACT NO.	706 Bostwick Avenue, Bridgeport, Conn. 06605 TEL (203) 368-6751 FAX: (203) 368-3747
MATERIAL	-N/A-	PREPARED	08-16-05
FINISH	-N/A-	CHECKED	
MECH		ELEC	
DESIGN		APPROVED	
SCALE	NONE	SIZE	B
WT	NONE	DRAWING NO.	515107
SHEET	1 OF 1	REV	K

**DEVAR Inc.**  
INTERCONNECTING DIAGRAM TO  
INTRINSICALLY SAFE APPARATUS

