



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:

FTL825—abcdefg. Nivotester
AIS/I, II, III/1/A, B, C, D, E, F, G - XA00646F
[AEx ia] IIC
ANI/I, II, III/2/A, B, C, D, E, F, G NIFW – XA00646F
[AEx ic] IIC

Uo < 22Vdc; Io < 166mA; Po < 970mW; Co < 0.165 μ F; Lo < 2.8mH; Ci \leq 1nF; Li = 0mH; Ri > 132 Ω *

a = Approval: (FB or 8C)
b = Housing: (3 or 9(different color))
c = Power Supply: (A or E)
d = Switch output: (4)
e = Additional Approval: (LC, LE, LF or LV)
f = Accessory Enclosed: (PA)
g = Tagging: (Z1)

*Refer to Control Drawing XA00646F for additional C_o/C_a & L_o/L_a values.

Equipment Ratings:

Intrinsically safe Associated Apparatus for outputs to Class I, II & III, Division 1, Group A, B, C, D, E, F & G; Class I, Division 2, Groups A, B, C, D, E, F & G; alternatively intrinsically safe outputs for Class I, Zone 0, Group IIC Ta = +60°C; non-incendive outputs for Class I, Zone 2, Group IIC Ta = +60°C in accordance with entity requirements when installed per Installation Drawing XA00646F hazardous (classified) locations.

FM Approved for:

Endress+Hauser GmbH+Co. KG
Hauptstrasse 1
D-79689 Maulburg
Germany

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

Class 3600	2011
Class 3610	2010
Class 3611	2004
ANSI/ISA-82.02.01	2008
ANSI/ISA 60079-0	2009
ANSI/ISA 60079-11	2011
ANSI/ISA 60079-26	2006

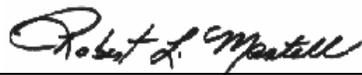
Original Project ID: 3044839

Approval Granted: May 30, 2012

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC



Robert L. Martell Jr.
Assistant Vice President

May 30, 2012
Date



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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

FTL825—abcdefg. Nivotester
AIS/I, II, III/1/A, B, C, D, E, F, G - XA00646F
[Ex ia] IIC
ANI/I, II, III/2/A, B, C, D, E, F, G NIFW - XA00646F
[Ex ic] IIC [Ex n] IIC

$U_o < 22V_{dc}$; $I_o < 166mA$; $P_o < 970mW$; $C_o < 0.165\mu F$; $L_o < 2.8mH$; $C_i \leq 1nF$; $L_i = 0mH$; $R_i > 132\Omega^*$

a = Approval: (FB or 8C)
b = Housing: (3 or 9(different color))
c = Power Supply: (A or E)
d = Switch output: (4)
e = Additional Approval: (LC, LE, LF or LV)
f = Accessory Enclosed: (PA)
g = Tagging: (Z1)

*Refer to Control Drawing XA00646F for additional C_o/C_a & L_o/L_a values.

Equipment Ratings:

Intrinsically safe Associated Apparatus for outputs to Class I, II & III, Division 1, Group A, B, C, D, E, F & G; outputs to Class I, Division 2, Groups A, B, C, D, E, F & G; alternatively intrinsically safe outputs for Class I, Zone 0, Group IIC $T_a = +60^\circ C$; non-incendive outputs for Class I, Zone 2, Group IIC, $T_a = +60^\circ C$ in accordance with entity requirements when installed per Installation Drawing XA00646F hazardous locations.

FM Approved for:

Endress+Hauser GmbH+Co. KG
Hauptstrasse 1
D-79689 Maulburg
Germany

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

C22.2 No. 0.4-04	2004
C22.2 No. 142-M1987	1987 (R2004)
Can C22.2 No. 157-92	1992 (R2006)
C22.2 No. 1010.1	2004
CAN/CSA E60079-0	2002 (R2006)
CAN/CSA E60079-11	2011

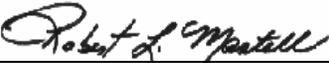
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