

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:

**RIA452- abcdefgh. Process Display.**

AIS / I, II, III / 1 / ABCDEFG — 02 14 00 111; Entity

I / 0 / [AEx ia] IIC,IIB,IIA — 02 14 00 111; Entity

ANI / I, II, III / 2 / ABCDEFG — 02 14 00 111; NIFW

Entity Parameters and Nonincendive Field Wiring Parameters:

Current Input (active)	V <sub>oc</sub>	I <sub>sc</sub>	P <sub>o</sub>	C <sub>a</sub>	L <sub>a</sub>
Terminals	(V)	(mA)	(mW)	(nF)	(mH)
81 and 82	27.6	88.6	612	86	1.6

Current Input (passive)	V <sub>oc</sub>	I <sub>sc</sub>	P <sub>o</sub>	C <sub>a</sub>	L <sub>a</sub>
Terminals	(V)	(mA)	(mW)	(nF)	(mH)
11 and 12	27.6	0.9	7.0	86	100

a = Version: C.

b = Power Supply: 1 or 2.

c = Measuring signal: 1, 2.

d = Non-I.S Output: 1, 2, 3, 4, 5, 6 or 7.

e = Communication: A or B.

f = Housing: 1.

g = Additional option: 1 or 2.

h = Version: not safety relevant.

*Specific conditions of use:*

1) The RIA452 Process Display shall be installed in a tool secured enclosure in compliance with the mounting, spacing and segregation requirements of the ultimate application.

## Equipment Ratings:

Associated Apparatus with Intrinsically Safe connections to Class I, Zone 0, Group IIC, IIB, IIA and connections to a Class I, II, & III, Division 1, Groups A, B, C, D, E, F, & G indoor Hazardous (Classified) Locations, in accordance with control drawings 02 14 00 111.

AND

Associated Nonincendive Field Wiring Apparatus with nonincendive field wiring connections to Class I, II, III, Division 2, Group A, B, C, D, F and G indoor Hazardous (Classified) Locations, in accordance with control drawings 02 14 00 111

The apparatus shall be installed in a final enclosure in order to retain its safety approval.

## FM Approved for:

Endress+Hauser Wetzer GmbH + Co. KG  
Nesselwang, 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
Class 3810	2005
ANSI/ISA 60079-0	2013
ANSI/ISA 60079-11	2013

Original Project ID: 3022964

Approval Granted: June 27, 2005

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3042808	October 4, 2011		
3048861	July 15, 2014		

FM Approvals LLC



J. E. Marquedant  
Manager, Electrical Systems

15 July 2014  
Date