



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	IECEx ZLM 11.0010X	issue No.:0	Certificate history:.....
Status:	<b>Current</b>		
Date of Issue:	<b>2012-02-08</b>	Page 1 of 3	
Applicant:	<b>Endress+Hauser Yamanashi Co., Ltd</b> 862-1 Mitsukunugi Sakaigawa-cho Fuefuki-shi Yamanashi Pref. 406-0846 <b>Japan</b>		
Electrical Apparatus: <i>Optional accessory:</i>	<b>Field Data Processor type Promonitor NRF560-F**</b>		
Type of Protection:	<b>flameproof enclosure "d"</b>		
Marking:	<b>Ex d IIC T4 Gb</b>		
<i>Approved for issue on behalf of the IECEx Certification Body:</i>	Dipl.-Ing. Harald Zelm		
<i>Position:</i>	Head of certification section		
<i>Signature: (for printed version)</i>	_____		
<i>Date:</i>	_____		

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**ZELM Explosionsschutz GmbH**  
 Siekgraben 56  
 D-38124 Braunschweig  
 Germany



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Manufacturer: **Endress+Hauser Yamanashi Co., Ltd.**  
862-1 Mitsukunugi Sakaigawa-cho  
Fuefuki-shi Yamanashi Pref. 406-0846  
**Japan**

Additional Manufacturing location  
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition: 6.0

**IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 6

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:  
[DE/ZLM/ExTR11.0011/00](#)

Quality Assessment Report:  
[DE/TUN/QAR06.0003/03](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Promonitor NRF560-F\*\* is usually installed at the base of a tank as a pole and is connected to the Tank Gauge located on the top of the tank over a two-wires connection. Whereas the Promonitor NRF560-F\*\* is considered as a remote display.

The field data processor type Promonitor NRF560-F\*\* is basically apparatus which contains of a power supply, a CPU board, a display unit, a terminal unit and a filter unit.

The display is assembled with optical keys which allow operation from outside through the glass panel.

The signs "\*" in the type designation will be replaced by the following letters:

Cable entry - First \*

A : Two G(PF) 1/2" thread

B : Two NPT 1/2" thread

C : Two PG16 thread

D : Two M20 thread

Power supply - second \*

3 : 85 – 264 VAC, 50/60 Hz, 25VA

4 : 20-60V DC, 25 W / 20-55 VAC, 50/60 Hz, 25 VA

Ambient Temperature range: –20°C to +60°C

Electrical data:

Power supply circuit

High voltage input version

connector: 1(L+), 3(N-), 5(GND) 85 V ... 264 V AC, max. 25 VA

Low voltage input version

connector: 1(L+), 3(N-), 5(GND) 19 V ... 55 V AC, max. 25 VA

or

connector: 1(L+), 3(N-), 5(GND) 19 V ... 62 V DC, max. 25 W

Serial interface circuit

connector : 11 – 20 Umax = 24V / Imax = 100mA

### CONDITIONS OF CERTIFICATION: YES as shown below:

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component) if they are not provided by the manufacturer as integral part of the equipment.

