



Level



Pressure



Flow



Temperature



Liquid Analysis



Registration



Systems Components



Services



Solutions

Safety Instructions

Promonitor NRF 560

ZELM 03 ATEX 0154 X

Safety instructions for electrical apparatus certified for use in explosion-hazardous areas

Designation according to Directive 94/9/EC: **CE** **Ex** **II** **2** **G**

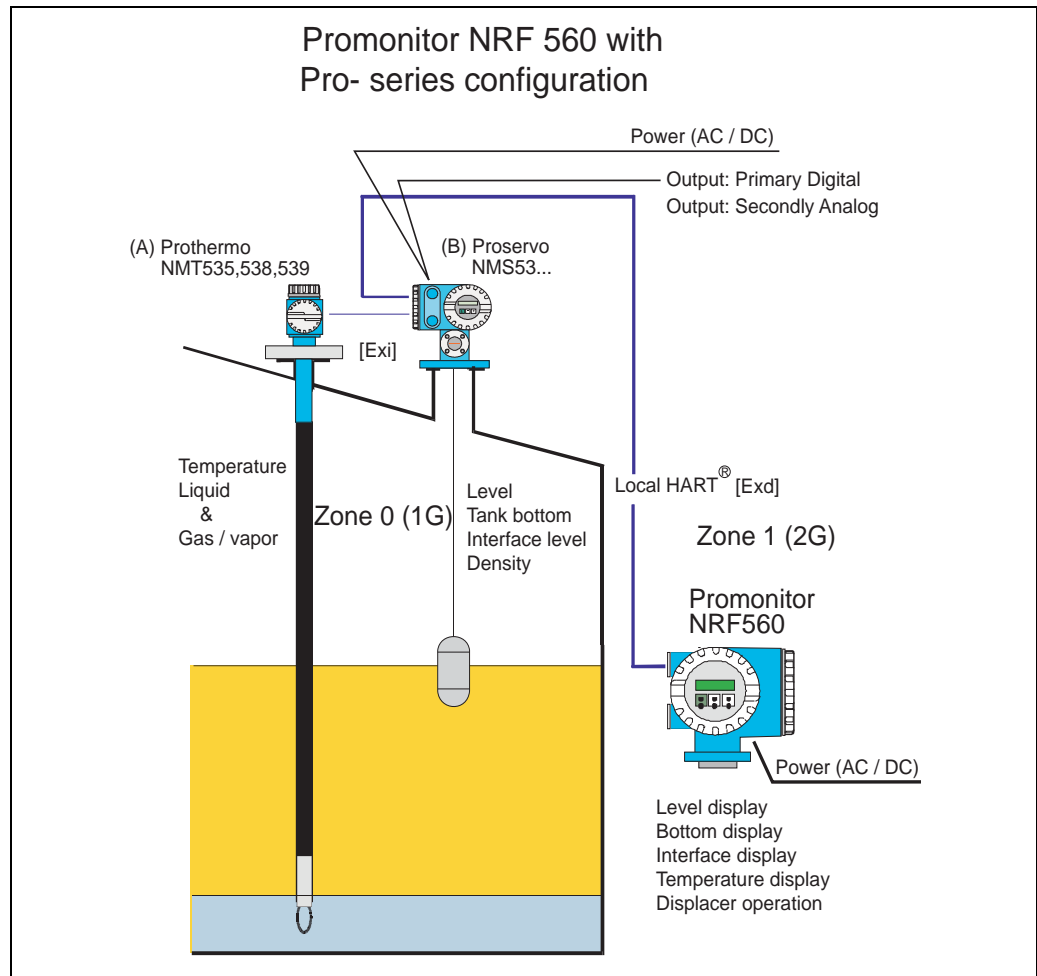
- Equipment Group _____
- Equipment Category: Housing Category 2 _____
- For explosive mixture composed of gases, mist or vapors _____

Hazardous zone at the mounting point		Category to Directive 94/9/EC
Hazard due to explosive gas-air mixture	Zone 0	1G
Hazard due to explosive gas-air mixture	Zone 1	2G
Hazard due to explosive gas-air mixture	Zone 2	3G

Designation of explosion protection:

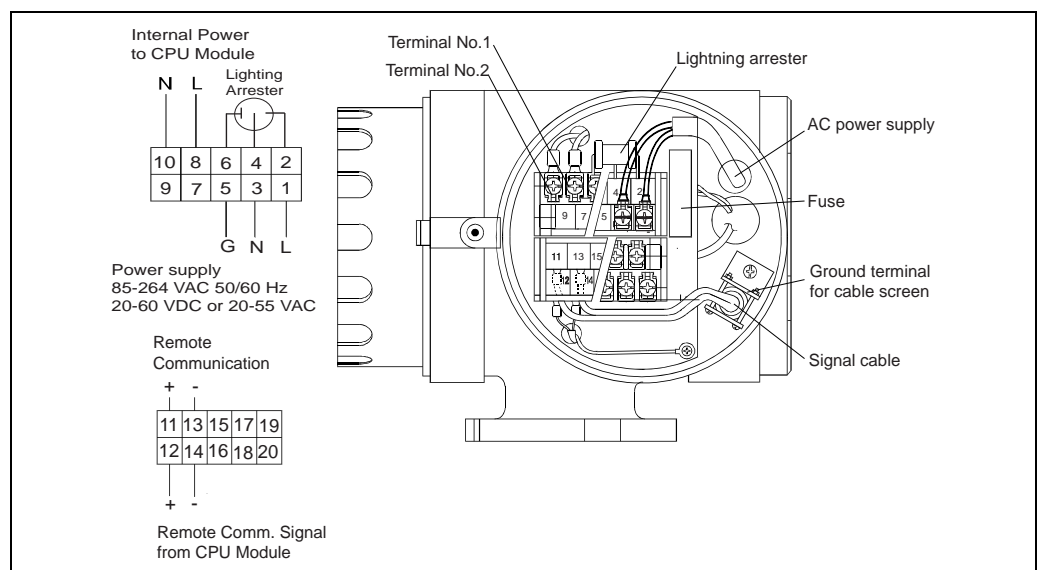
- Electrical apparatus with explosion protection to European standard _____
- Type of protection _____
- Apparatus group _____
- Temperature class _____

Promonitor NRF560 System Configuration



Refer to each safety instructions and operation manual regarding A and also B

Promonitor NRF 560 terminal housing layout



Safety notes for installation in hazardous areas:

- 1 Install according to the manufacture's instructions and other valid standards and guidelines.
- 2 Do not open the electrical connection of the power supply circuit under voltage if a potentially explosive atmosphere is present.
- 3 Connection compartment cover: "Do not open under voltage in explosive atmospheres"
 - 3.1 Only certified cable entries must be used for the intended cables. Selection criteria as per DIN / IEC 60079-14 must be observed.
 - 3.2 For operating the tank side monitor housing at an ambient temperature under -20°C , appropriate cables and cable entries permitted for this application must be used.
 - 3.3 Continuous duty temperature of the cable $\geq T_{amb} + 5 \text{ K}$
 - 3.4 When connecting the tank side monitor housing via piping entries permitted for this purpose, the associated seal mechanisms must be arranged directly at the housing.
 - 3.5 Each cable entry shall have only the installed threaded adopter.
 - 3.6 Unused cable entry;

An unused cable entry of the enclosure is to be plugged directly by stopping plug. A stopping plug shall not be used with threaded adopter. The purchased stopping plug shall be ATEX certified Ex d stopping plug which thread size is M26 X 1.5

4 Supply and signal circuit :**Power Supply:** [Terminals: 1(L+), 3(N-), 5(GND)]

High voltage type	Low voltage type
NRF560-..3..	NRF560-..4..
85 V ... 264 V AC, 50/60 Hz, max. 25 VA	20 V... 55 V AC, 50/60 Hz, max. 25 VA, 20 V ... 60 V DC, max. 25W

Internal circuit: [Terminals: 11 to 20]

$$U_{max} = 24 \text{ V}, I_{max} = 100\text{mA}$$

- 5 Ambient Temperature: $-20^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$

Applied standard :

EN 60079-0 : 2009

EN 60079-1 : 2007

Declaration of Conformity

With this Declaration of Conformity, Endress+Hauser Japan ensures that the product conforms to the regulations of the European EMC Directive 89/336/ECC and Directive 94/9/EC. Proof of conformity is given by the standards listed in the Declaration of Conformity.

Endress+Hauser 
People for Process Automation

121001

Declaration of Conformity

Endress+Hauser Yamanashi Co., Ltd.
862-1 Mitsukunugi, Sakaigawa-cho, Fuefuki-shi,
Yamanashi Prefecture, 406-0846 Japan
 Assume sole responsibility standing that the product
 Field Data Processor "Promonitor"
 NRF56-....

Explosion Proof Certification Number:
 ZELM 03 ATEX 0154 X

Applied European Directives:
 EMC-Directive 2004/108/EC
 Ex-Directive 94/9/EC

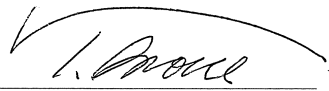
To which this declaration relates is in conformity with the following standards.

EN50081-1	(1992)	EN60079-0	(2009)
EN50082-2	(1995)	EN60079-1	(2007)
EN61326	(1997:A1,1998:A2,2001)		

Quality System was inspected by
 TÜV NORD CERT GmbH Notify Body Number: 0044

First period for CE marking 2001

Yamanashi, 9 October 2012
 (Place and Date)


 (General Manager)

Associated Documentation

BA00425G/08/EN
 TI00462G/08/EN

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