

# Tank side monitor *Promonitor NRF 560*

**For tank side monitoring and controlling of  
Proservo NMS 53... intelligent tank gauge**



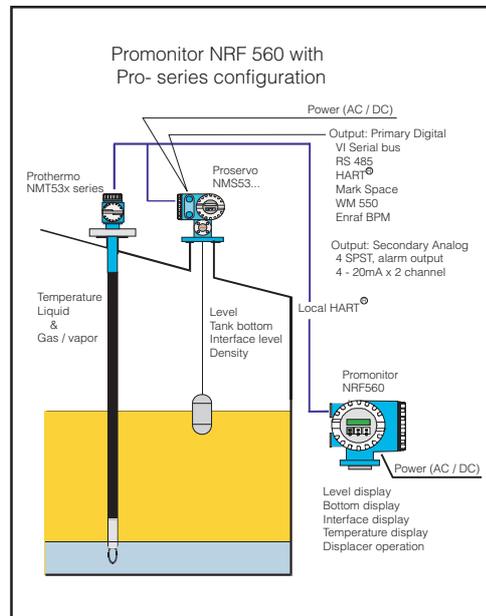
## Application

Promonitor NRF560 is a monitoring unit for use with the Proservo series of tank gauges. Mounted at the tank side or up to 1200 meters away (local HART connection), Promonitor provides indication of measured level, temperature data and operating status, and can send operating commands to the Proservo NMS 53... from a convenient location.

## Features at a Glance

- Remote monitoring and control for Proservo tank gauge
- Indication via two line illuminated display
- Operation via 3 optical keys (touch control) and E+H user friendly programming matrix
- Robust IP 67 housing
- Explosion proof for hazardous area mounting

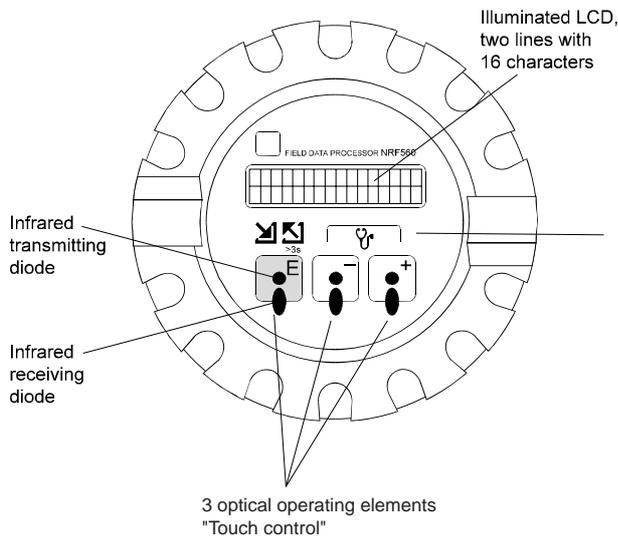
# System Configuration



Promonitor NRF 560 is a simple low cost tank side monitor for displaying primary TG data and operating the Proservo NMS53...series tank gauge. The Proservo NMS 53... operation is performed by 3 optical keys (touch control).

Local HART Protocol (two wire) is used for data transmission between Proservo NMS 53... and Promonitor NRF 560.

# Display / Operation



Promonitor NRF560 has a two line illuminated Liquid Crystal Display (LCD) and utilizes touch control to help initiate operation and select data indication from the Proservo. Mounted within a flameproof enclosure, touch control ensures safe operation even in hazardous areas.

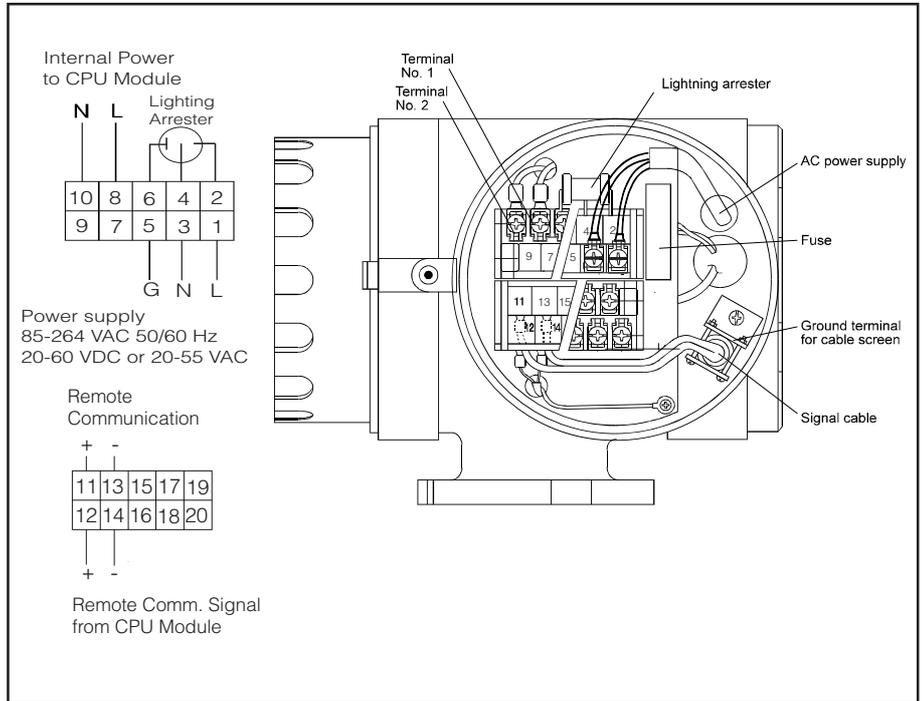
Two display modes are available for indication of level and temperature\*.

Operating commands to the Proservo include:

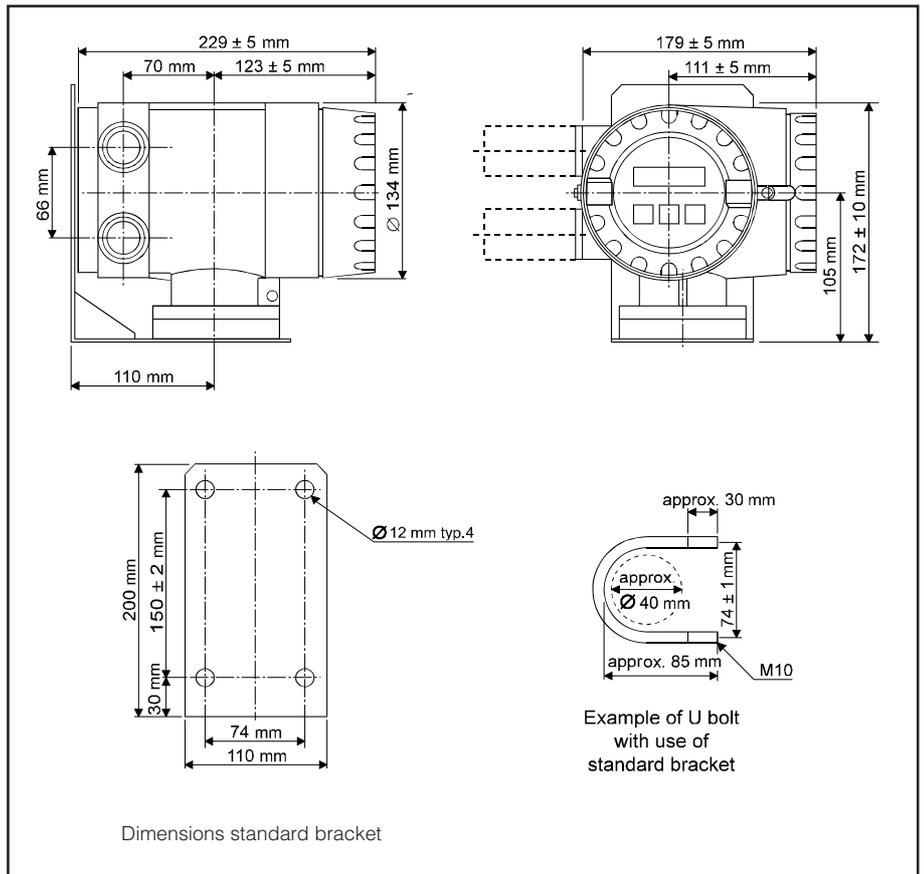
- Level measurement
- Displacer host
- Interface level measurement (two interfaces can be measured)
- Specific gravity measurement of each product layer
- Tank Bottom

**\*Note: The Promonitor displays only level and temperature data.**

# Electrical Connections



# Dimensions



## Technical Data

General Specification	Manufacturer Designation Function	Endress+Hauser Japan Co., Ltd. Promonitor NRF 560 Tankside Monitor/controller
Input Characteristics	Signal	Local HART protocol
Display / Programming	Display	Two lines 16 digits illuminated display language selectable English and Japanese
	Programming	3 optical keys for selection of matrix functions (touch control)
Power Supply	Power Supply	85 - 264 VAC 50/60 Hz or 20-60 VDC / 20-55 VAC
	Power Consumption	For AC power supply: 40 VA For DC power supply: 40 W
Certification	Explosion proof	EEx d IIC T4, CENELEC Ex d IIB T4, TIIS XP Class 1, Div. 1, Gp. ABCD, FM Class 1, Div. 1, Gp. ABCD, CSA EEx d IIC T4, ATEX
Environmental Conditions	Ambient Temp. Protection	-20...+60°C IP67 with closed housing and cable glands of same protection class
	Housing: material & weight	Aluminum, coated with rust-inhibitor paint. Approx. 6.5 kg
	Electromagnetic compatibility	Immunity and emission to EN 50082-1,2

## Product Structure

### NRF 560

#### Protection Class

- 0 IP67 / NEMA 4X / IP67 Type 4X
- 1 Ex d IIB T4 TIIS
- 2 EEx d IIC T4 CENELEC
- 4 XP Class I, Div. 1, Gp. ABCD (FM)
- 5 Class I, Div. 1, Gp. ABCD (CSA)
- 6 EEx d IIC T4, ATEX
- 9 Special version

#### Cable Entry

- A Two G(PF) 1/2" thread
- B Two NPT 1/2" thread
- C Two PG16 thread
- D Two M20 thread
- Y Special version

#### Power Supply

- 3 Power Supply: 85-264 VAC,50/60Hz,
- 4 Power Supply: 20-62 VDC,  
: 40W/20-55VAC,50/60 Hz
- 9 Special version

#### Mounting Bracket

- 0 None
- 1 With mounting bracket
- 9 Special version

#### Painting

- 0 Standard (Blue)
- 9 Special version

NRF 560

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