

# Tank gauging

## Tank Side Monitor NRF81

Field gateway for tank sensor operation, monitoring and integration into inventory control system



### Benefits:

- Hardware and software developed according to IEC 61508 up to SIL3 (in homogeneous redundancy) for high level of safety
- Intrinsically safe power supply and communication for Micropilot and Levelflex radar level devices
- Simplified installation and trouble-free operations due to easy connection to major DCS systems via open protocols
- Approved for use in explosion-hazardous areas

**Field of application:** The Tank Side Monitor NRF81 is a sensor integration and monitoring unit for bulk storage tank gauging applications. It integrates various level, temperature and pressure tank sensor data into a control host system. Various selectable alarms and outputs.

More information and current pricing:

[www.fi.endress.com/NRF81](http://www.fi.endress.com/NRF81)

## Features and specifications

Continuous / Liquids

### Measuring principle

Level radar

### Characteristic / Application

Field gateway for tank sensor operation and monitoring and integration into inventory control system

### Specialities

Hydrostatic Tank Gauging (HTG)

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**Continuous / Liquids****Supply / Communication**85-264VAC

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**Ambient temperature**

Standard:

-40°C...60°C

(-40°F...140°F)

For calibration to regulatory standards:

-25°C...55°C

(-13°F...131°F)

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**Communication**

Outputs:

Fieldbus: Modbus RS485, V1, HART

Analog 4-20mA (Exi/Exd)

Relay (Exd)

Inputs:

Analog 4-20mA (Exi/Exd)

2-, 3-, 4-wire RTD

Discrete input (Exd, passive/active)

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**Certificates / Approvals**ATEX, FM, IEC Ex, JPN Ex

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**Safety approvals**

SIL

Overfill protection WHG

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**Metrological approvals and certificates**OIML, NMI, PTB

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**Options**

Redundant fieldbus

Alu-coated or 316L housing

Weather protection cover

mounting kit pipe

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