

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

More information and current pricing:

www.ch.endress.com/NRF81

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.

Features and specifications

Continuous / Liquids

Measuring principle

Level radar

Continuous / Liquids**Characteristic / Application**

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

Specialities

Hydrostatic Tank Gauging (HTG)

Supply / Communication

85-264VAC

Ambient temperature

Standard:

-40°C...60°C

(-40°F...140°F)

For calibration to regulatory standards:

-25°C...55°C

(-13°F...131°F)

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)

Certificates / Approvals

ATEX, FM, IEC Ex, JPN Ex

Safety approvals

SIL

Overfill protection WHG

Metrological approvals and certificates

OIML, NMi, PTB

Continuous / Liquids

Options

Redundant fieldbus
Alu-coated or 316L housing
Weather protection cover
mounting kit pipe

More information www.ch.endress.com/NRF81