# **DuoSeries Level Transmitter LB 470**

Cutting-edge radiometric level system in real 2-wire technology





#### Gas Properties Compensation

A varying gas density and even a varying hydrogen content of the gas phase can affect the accuracy of the level reading. To ensure a constantly high accuracy - even under these conditions the LB 470 level transmitter offers a Gas Propoerties Compensation feature. The signal of a second radiometric detector, measuring the gas phase only, is fed to the transmitter, where it goes into equation of the level calculation.

#### MultitudaeysWof Operation

The LB 470 level transmitter incorporates a robust 3.5" TFT Touch Panel with industrial design for local operation. USB-keyboard and mouse can be connected as well.

In addition the transmitter offers full remote operation and data logging through Ethernet connection.

#### DynamAidjustmenTitmoef Constant

The transmitter recognizes quick process changes (jump in count rate signal) and automatically reduces the time constant to speed up the measurement. When process conditions normalize again the time constant automatically returns to its standard value.

## Duo Series TreavnesImitter LB 470

Power supply	100240 VAC ±0 %, 50 60 Hz, 30 VA (Master) or 15 VA (Slave) 24 VDC (18 30 VDC), 30 W
Ambient temperature	Operation: -20 +60°C (-4 +140°F), no condensation Storage: -20 +85°C (-4 +185°F), no condensation
Design	Master: 19" module 3HE, 21TE, protection IP 20 Slave: 19" module 3HE, 7TE, IP 20
Processor	Dual Core CPU
Installation	In wall-mounted cabinet (2x Master or 1x Master + 3x Slave) In 19" rack (4x Master or 2x Master + 6x Slave) further assemblies on request
Signal inputs and outputs	·
Signal inputs and outputs Signal output Digital inputs	4 20 mA, potential-free / max. impedance 500 ©
Signal output	4 20 mA, potential-free / max. impedance 500 ©
Signal output Digital inputs	<ul> <li>4 20 mA, potential-free / max. impedance 500 ©</li> <li>2 inputs, configurable for hold, external adjust</li> <li>1 relay (SPDT) for failure event</li> <li>2 relays (SPDT and SPST) for min./max. alarm, detector temperature or others</li> </ul>

#### Software

Menu languages	English, German, others on request
Features	<ul> <li>Gas Properties Compensation</li> <li>Dynamic Adjustment of Time Constant</li> <li>Calibration Adjust: Automatic adjustment of calibration curve</li> <li>Radiation Interference Detection</li> <li>Automatically generated message for pending source exchange</li> <li>Diagnostics according to Namur NE-107 with event log, change</li> <li>log, data log</li> </ul>

For technical details of detectors please see DuoSeries detector LB 4700 brochure

### Accessories

As an option the transmitter can be installed in our robust wall-mounted cabinet made from metal (IP 65).

