# **DuoSeries Density Transmitter LB 474**

Cutting-edge radiometric density system with real 2-wire detector technology







### **Designed for Operators**

The DuoSeries LB 474 density transmitter is characterized by an advanced, customerdriven operation. The main enhancement compared to its predecessor is the ease of operation with the outstanding and robust 3.5" TFT touch panel with industrial design. Moreover the transmitter provides a number of valued diagnostic and monitoring features for improved plant reliability.

Operators also benefit from the new service functionalities like data logging, which can be accessed either remotely through Ethernet connection or through the USB port at the front panel of the system.

## **Dual Core CPU**

The measurement itself is managed independently from the user interface by using two separate cores. Thus the measurement can continue even in case the display or the user interface fails, ensuring high operational safety where reliability matters.

## DuoSeries Density Transmitter LB 474

Power supply	100240 VAC ±10 %, 50 60 Hz, 30 VA
	24 VDC (18 30 VDC), 30 W
Ambient temperature	Operation: -20 +60°C (-4 +140°F), no condensation
(Transmitter)	Storage: -20 +85°C (-4 +185°F), no condensation
Design	19" module 3RU, 21HU, protection IP 20
Processor	Dual Core CPU
Installation	In wall-mounted cabinet (up to 2 units)
	In 19" rack (up to 4 units) Other options available on request
Other certificates	CE
Certificates	
Other certificates	CE NRTL according to UL/CSA approval
Other certificates	
Signal inputs and outputs	
Other certificates Signal inputs and outputs Signal output Digital inputs	NRTL according to UL/CSA approval
Signal inputs and outputs	NRTL according to UL/CSA approval 4 20 mA, potential-free / max. impedance 500 Ω
Signal inputs and outputs Signal output Digital inputs	NRTL according to UL/CSA approval         4 20 mA, potential-free / max. impedance 500 Ω         2 inputs, configurable for hold, external adjust         1 relay (SPDT) for failure event         2 relays (SPDT and SPST) for high/low PV alarm, detector
Signal inputs and outputs Signal output Digital inputs	NRTL according to UL/CSA approval         4 20 mA, potential-free / max. impedance 500 Ω         2 inputs, configurable for hold, external adjust         1 relay (SPDT) for failure event
Signal inputs and outputs Signal output Digital inputs	NRTL according to UL/CSA approval         4 20 mA, potential-free / max. impedance 500 Ω         2 inputs, configurable for hold, external adjust         1 relay (SPDT) for failure event         2 relays (SPDT and SPST) for high/low PV alarm, detector temperature or others
Signal inputs and outputs Signal output Digital inputs Digital outputs Analog inputs	NRTL according to UL/CSA approval         4 20 mA, potential-free / max. impedance 500 Ω         2 inputs, configurable for hold, external adjust         1 relay (SPDT) for failure event         2 relays (SPDT and SPST) for high/low PV alarm, detector temperature or others         Permissible ohmic load: Max. 30V 1A AC/DC
Signal inputs and outputs Signal output Digital inputs Digital outputs Analog inputs	A       20 mA, potential-free / max. impedance 500 Ω         2 inputs, configurable for hold, external adjust         1 relay (SPDT) for failure event         2 relays (SPDT and SPST) for high/low PV alarm, detector         temperature or others         Permissible ohmic load: Max. 30V 1A AC/DC         4 20 mA, for temperature compensation
Signal inputs and outputs Signal output Digital inputs Digital outputs	NRTL according to UL/CSA approval         4 20 mA, potential-free / max. impedance 500 Ω         2 inputs, configurable for hold, external adjust         1 relay (SPDT) for failure event         2 relays (SPDT and SPST) for high/low PV alarm, detector temperature or others         Permissible ohmic load: Max. 30V 1A AC/DC         4 20 mA, for temperature compensation         USB (for software update, data backup, keyboard, mouse)

Software

Menu languages	English, German, French, Chinese, Russian, Portugese, Italian, others on request
Features	<ul> <li>Up to 4 calibration curves</li> <li>Compensation of product temperature variations (PT100 connected to detector or analog input)</li> <li>Dynamic adjustment of time constant</li> <li>Radiation Interference Detection</li> <li>Automatically generated message for pending source exchange Diagnostics according to Namur NE-107 with event log, change log, data log</li> </ul>

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



#### Cabinet

Optionally the transmitter can be installed in a robust wall-mounted, steel cabinet (IP 65).