

Web: www.dastecsrl.com.ar

DuoSeries Density Transmitter LB 474

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

Next Generation Density Transmitter

- Measuring density, concentration, solid content
- Maximum ease of use and advanced Touch HMI
- Simplified calibration procedure
- 2-wire technology, no additional power cables in the field
- Valued self diagnostics and monitoring features (SIL standard)
- Direct replacement of predecessor model LB 444
- Interfaces with all 2-wire detectors LB 44xx, LB 54xx and LB 4700

Monitored current output ensures highest measurement reliability

Display of history and trends (Process value, count rate, and detector temperature)

Additional service interfaces via USB and Ethernet, for remote access

3 relay outputs (2x SPDT and 1x SPST)

1.181 Process Value [g/cm³] 59

Very easy handling and operation through 3.5" TFT touch panel. Alternatively, keyboard and mouse can be connected via USB.

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Detector powered from remote-mount transmitter

Only two wires required to detector in the field



Diagnostics according to Namur NE-107 with event log, change log and data log





Representantes / Distribuidores Exclusivos

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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.

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100240 VAC ±10 %, 50 60 Hz, 30 VA
24 VDC (18 30 VDC), 30 W
Operation: -20 +60°C (-4 +140°F), no condensation
Storage: -20 +85°C (-4 +185°F), no condensation
19" module 3RU, 21HU, protection IP 20
Dual Core CPU
In wall-mounted cabinet (up to 2 units)
In 19" rack (up to 4 units) Other options available on request
Calc. Options attainable on request
CE
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) RS 485, Ethernet (for remote access)
internally: in non-volatile memory externally: USB memory device
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English, German, French, Chinese, Russian, Portugese, Italian, others on request
- Up to 4 calibration curves
 Compensation of product temperature variations (PT100 connected to detector or analog input)
- Dynamic adjustment of time constant
- Radiation Interference Detection
 Automatically generated message for pending source exchange Diagnostics according to Namur NE-107 with event log, change
log, data log

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).