LEVEL TRANSMITTER

For 0.3 to 18.3 m (1 to 60')

LVU41 Starts at



ULTRASONIC NON-CONTACT

- ✓ RS232 or RS485 **Communications** Available
- Programmable
- Pushbutton Calibration
- Elimination of **Unwanted Echoes**
- ✓ Temperature Compensated
- Field/Bench Calibration
- Self-Cleaning Sensor Face
- Non-Volatile Memory (Batteries Not Required)

The LVU40 Series consists of advanced ultrasonic level measurement sensors for liquids. These products continue to prove useful in demanding applications.

The microprocessor-based circuits provide a temperature-compensated signal for improved accuracy. All models have the ability to filter false echoes produced by peripheral obstructions.

These transmitters can perform continuous level measurement in a range of 0.3 to 18.3 m (1.0 to 60'), with several power and programmability options. Point level can also be obtained by using a PLC (programmable logic controller) or one of OMEGA's CNi Series process controllers.

SPECIFICATIONS

Accuracy: ±0.25% of max

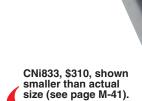
range (in air)

Range: 0.3 to 18.3 m (1 to 60') **Resolution:** 6.9 mm (0.270") Frequency: 45 kHz Dead Zone Range: 0.3 m (1') **Operating Temperature Range:** -40 to 60°C (-40 to 140°F) Pressure: 1 bar (15 psig max)

Mounting: 3 NPT

Beam Angle: 6 to 12° at -3 dB

(model dependent) Loss of Echo Hold: 30 seconds, 22 mA output



Temperature Compensation:

Onboard the sensor

Calibration: Pushbutton or optional

LVU41-RS232, \$941, shown

smaller than actual size.

programmable

Diagnostics (Echo Profile): Via optional programmable port

Approval: Entela, CE

Conduit Entry: ½ NPT hole (PVC only) Enclosure: Aluminum with PVC antenna ingress protection [NEMA 4X (IP66)]

Housing Dimensions: 101.6 x 226.1 m (4 x 8.9") Sensor Diameter: 76.2 mm (3")

Power Options:

AC: 115 Vac, 60 Hz or 230 Vac, 50 Hz (±20%) 1.7 VA **DC:** 12 to 30 Vdc @ 0.07 A, @ 24 Vdc R load = (Vs - 6)/24 mA

Output: 4 to 20 mA or 20 to 4 mA. 6.1 μ A resolution; 750 Ω (isolated on

4-wire models only) Optional: RS232 or RS485 communications port

Fuse: 0.125 A/250 V type

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	To Order (S	To Order (Specify Model Number)			
	Model No.	Price	Description		
	LVU41-RS232	\$941	3-wire 12 to 30 Vdc ultrasonic level transmitter with RS232 communications and Windows software		
	LVU41-RS485	941	3-wire 12 to 30 Vdc ultrasonic level transmitter with RS485 communications and Windows software		
	LVU42-RS232	966	4-wire 115 Vac ultrasonic level transmitter with RS232 communications and Windows software		
	LVU42-RS485	966	4-wire 115 Vac ultrasonic level transmitter with RS485 communications and Windows software		

Accessories

Model No.	Price	Description
CNi3233	\$195	1/32 DIN controller with relays, see page M-41 for details
DPi32	150	1/32 DIN panel meter, see page M-37 for details
PSR-24S	60	Regulated power supply, 90 to 264 Vac input, 24 Vdc output, 400 mA, screw terminals, UL
PSR-24L	60	Regulated power supply, 90 to 264 Vac input, 24 Vdc output, 400 mA, stripped leads, UL
PSR-24L-230	60	Regulated power supply, 230 Vac input, 24 Vdc output, 400 mA, stripped leads, CE
FW-205	250	Reference Book: The Consumer Guide to Non-Contact Level Gauges

Comes complete with software and operator's manual.

Ordering Examples: LVU42-RS485, 4-wire ultrasonic transmitter with RS485, \$966.

LVU41-RS232, 3-wire ultrasonic level transmitter with RS232, \$941.

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