EchoSpan

Ultrasonic Level Transmitter

Specifications

Range: LU81: 8" to 16.4'		
LU83: 8" to 26.2' (20 cm to 8m)	Range:	
(20 cm to 8m) LU84: 12" to 32.8' (30 cm to 10m) Accuracy: ± 0.2% of span in air LU81/83: 0.039" (1 mm) LU84: 0.078" (2 mm) Beam width: 3" (7.6 cm) dia. Dead band: LU81: 8" (20 cm) LU83: 8" (20 cm) LU84: 12" (30 cm) Display type: LCD, 6-digit Display units: Inch, cm or percent Display mode: Air gap or liquid height Memory: Non-volatile Supply voltage: 12-28 VDC Loop resist.: 500 Ohms @ 24 VDC Signal output: 4-20 mA, two-wire Signal invert: 4-20 mA or 20-4 mA Calibration: Push button Fail-safety: Selectable 4mA, 20mA, 21 mA, 22 mA or hold Process temp.: F: -7° to 140° C: -20° to 60° Temp. comp.: Automatic Electronics temp.: F: -40° to 160° C: -40° to 71° Pressure: 30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C. Enclosure rating: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose		·
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Dead band: LU81: 8" (20 cm) LU84: 12" (30 cm) LU84: 12" (30 cm) Display type: Display units: Display mode: Memory: Supply voltage: Loop resist.: Signal output: 4-20 mA, two-wire Signal invert: 4-20 mA or 20-4 mA Calibration: Push button Fail-safety: Selectable 4mA, 20mA, 21 mA, 22 mA or hold Process temp.: F: -7° to 140° C: -20° to 60° Temp. comp.: Automatic Electronics temp.: F: -40° to 160° C: -40° to 71° Pressure: 30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C. Enclosure rating: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: Conduit entrance: Dual, 1/2" NPT Classification: General purpose		
LU83: 8" (20 cm) LU84: 12" (30 cm) Display type: Display units: Display mode: Memory: Supply voltage: Loop resist.: Signal output: Signal invert: Calibration: Fail-safety: F: -7° to 140° C: -20° to 60° Temp. comp.: Automatic Electronics temp.: F: -40° to 71° Pressure: 30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C. Enclosure rating: Enclosure vent: Encl. material: PVDF Process mount: Classification: CLD, 6-digit Dich, cm or percent Air gap or liquid height Non-volatile 12-28 VDC Loop resist.: 500 Ohms @ 24 VDC Signal output: 4-20 mA, two-wire Selectable 4mA, 20mA, 21 mA, 22 mA or hold F: -7° to 140° C: -20° to 60° Automatic Electronics temp.: F: -40° to 160° C: -40° to 71° Pressure: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Classification: General purpose	Beam width:	
Display type: LCD, 6-digit Display units: Inch, cm or percent Display mode: Air gap or liquid height Memory: Non-volatile Supply voltage: 12-28 VDC Loop resist.: 500 Ohms @ 24 VDC Signal output: 4-20 mA, two-wire Signal invert: 4-20 mA or 20-4 mA Calibration: Push button Fail-safety: Selectable 4mA, 20mA, 21 mA, 22 mA or hold Process temp.: F: -7° to 140° C: -20° to 60° Temp. comp.: Automatic Electronics temp.: F: -40° to 160° C: -40° to 71° Pressure: 30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C. Enclosure rating: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose	Dead band:	
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Display units: Inch, cm or percent Display mode: Air gap or liquid height Memory: Non-volatile Supply voltage: 12-28 VDC Loop resist.: 500 Ohms @ 24 VDC Signal output: 4-20 mA, two-wire Signal invert: 4-20 mA or 20-4 mA Calibration: Push button Fail-safety: Selectable 4mA, 20mA, 21 mA, 22 mA or hold Process temp.: F: -7° to 140° C: -20° to 60° Temp. comp.: Automatic Electronics temp.: F: -40° to 160° C: -40° to 71° Pressure: 30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C. Enclosure rating: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose		LU84: 12" (30 cm)
Display mode: Air gap or liquid height Memory: Non-volatile Supply voltage: 12-28 VDC Loop resist.: 500 Ohms @ 24 VDC Signal output: 4-20 mA, two-wire Signal invert: 4-20 mA or 20-4 mA Calibration: Push button Fail-safety: Selectable 4mA, 20mA, 21 mA, 22 mA or hold Process temp.: F: -7° to 140° C: -20° to 60° Temp. comp.: Automatic Electronics temp.: F: -40° to 160° C: -40° to 71° Pressure: 30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C. Enclosure rating: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose		=
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Supply voltage: 12-28 VDC Loop resist.: 500 Ohms @ 24 VDC Signal output: 4-20 mA, two-wire Signal invert: 4-20 mA or 20-4 mA Calibration: Push button Fail-safety: Selectable 4mA, 20mA, 21 mA, 22 mA or hold Process temp.: F: -7° to 140° C: -20° to 60° Temp. comp.: Automatic Electronics temp.: F: -40° to 160° C: -40° to 71° Pressure: 30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C. Enclosure rating: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose	Display mode:	Air gap or liquid height
Loop resist.: 500 Ohms @ 24 VDC Signal output: 4-20 mA, two-wire Signal invert: 4-20 mA or 20-4 mA Calibration: Push button Fail-safety: Selectable 4mA, 20mA, 21 mA, 22 mA or hold Process temp.: F: -7° to 140° C: -20° to 60° Temp. comp.: Automatic Electronics temp.: F: -40° to 160° C: -40° to 71° Pressure: 30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C. Enclosure rating: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose	Memory:	Non-volatile
Signal output: 4-20 mA, two-wire Signal invert: 4-20 mA or 20-4 mA Calibration: Push button Fail-safety: Selectable 4mA, 20mA, 21 mA, 22 mA or hold Process temp.: F: -7° to 140° C: -20° to 60° Temp. comp.: Automatic Electronics temp.: F: -40° to 160° C: -40° to 71° Pressure: 30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C. Enclosure rating: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose	Supply voltage:	12-28 VDC
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C: -20° to 60° Temp. comp.: Automatic Electronics temp.: F: -40° to 160° C: -40° to 71° Pressure: 30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C. Enclosure rating: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose		21 mA, 22 mA or hold
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Pressure: 30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C. Enclosure rating: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose	Electronics temp.:	F: -40° to 160°
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Enclosure rating: NEMA 4X (IP65) Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose		psi (.113 bar) per °C.
Enclosure vent: Water tight membrane Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose		above 25° C.
Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose	Enclosure rating:	NEMA 4X (IP65)
Encl. material: PC/ABS FR Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose	Enclosure vent:	Water tight membrane
Trans. material: PVDF Process mount: 2" NPT (2" G) Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose	Encl. material:	PC/ABS FR
Mount. gasket: Viton® Conduit entrance: Dual, 1/2" NPT Classification: General purpose	Trans. material:	PVDF
Conduit entrance: Dual, 1/2" NPT Classification: General purpose	Process mount:	2" NPT (2" G)
Conduit entrance: Dual, 1/2" NPT Classification: General purpose	Mount. gasket:	Viton®
Classification: General purpose		Dual, 1/2" NPT
	Classification:	
	CE compliance:	



Description

The general purpose two-wire ultrasonic transmitter provides non-contact level measurement up to 32' or 10m, and is ideally suited for challenging ultrapure, corrosive or waste liquids. Push button calibrated, the transmitter is broadly selected for atmospheric bulk storage, day tank and waste sump applications. Media examples include wastewater and sodium hydroxide.



Features

- Setup is fast and simple with pus button calibration and LCD display
- Offered in three measurement ranges up to 10m with 2" transducer
- 6-segment LCD display indicates level in inch or centimeter values
- 7.6 cm minimum beam width for applications with restricted space
- Selectable display indicates level in air gap or liquid height
- PC/ABS enclosure rated NEMA 4X with rugged PVDF transducer
- Fail-safe intelligence with diagnostic feedback for easy troubleshooting

EchoSpan O

Ordering

Sensor range 81 5m (16.4') 83 8m (26.2') 84 10m (32.8') Process mount (1) (2) 0 NPT (US) 6 G (Metric)

Ordering Notes

- 1) For installation on open tanks, order the LM50-1001 (2" NPT) or LM50-1061 (2" G) side mount bracket.
- 2) For a liquid tight cable connection, order the LM90-1001 connector.



EchoSpan

Ultrasonic Level Transmitter





