

Depth Transmitters and Transducers



LH171



LH176

Variants

- ◆ LH176
- ◆ LH171
- ◆ LP
- ◆ LR
- ◆ RS
- ◆ B
- ◆ ULR
- ◆ V5
- ◆ V12

Has a removable/replaceable transducer and electronic module offering 5:1 turndown, zero and span controls and lightning suppression

5:1 turndown, zero and span controls and lightning suppression

Low Power, units operate over the voltage range 8-20Vdc

Low Range, units available over the range 0-3.5mwig

Reverse Scale, provides an output of 20-4mA (Fixed Range)

Four-wire Transducer rangeable with RT-4 Transmitter

Operates over the range of 0-700mmwig

5Vdc in and 5Vdc out

12Vdc in and 5Vdc out

Available

Materials

- ◆ Diaphragm 316L Stainless Steel
- ◆ Sensing Element Micro-Machined Silicon
- ◆ Body 316L Stainless Steel
- ◆ Nose Cone & Cover 316L Stainless Steel
- ◆ 'O' Rings Viton
- ◆ Cable Outer Cover Polyurethane
Inner Cores Polyethylene Insulated, supplied complete with Kevlar strain wire, vent tube and screen

Connections

2 Wire LH171 & LH176		3 Wire LH176-V5 & V12		4 Wire LH176-B for use with the RT-4	
+ Supply	Red	+ Supply	Red	+ Supply	Red
- Supply	Blue	- Supply	Blue	- Supply	Blue
Earth	Green	Output	Yellow	+ Signal	Green
		Earth	Green	- Signal	Yellow
				Earth	Plain

Specifications

	Transmitters 2-Wire		Transducers 4-Wire For use with the RT-4	
Model No.	LH171	LH176	LH171-B	LH176-B
Min Full Scale Range mwg.	1m	2m	2m	2m
Max. Full Scale Range mwg	200m	200m	200m	200m
Over Pressure %	200	200	200	200
Burst Pressure %	300	300	300	300
Input Current/ Voltage	10-32Vdc	15-36Vdc	1.6mA	1.6mA
Output Current/ Voltage	4-20mA	4-20mA	4-20mA	15-100mV/Vdc
NLH % FS	+/- 0.1	+/- 0.1	+/- 0.1	+/- 0.1
Temp Coeff – Zero % FRO/C	0.02	0.02	0.02	0.02
Temp Coef – Span % FRO/C	0.02	0.02	0.02	0.02
Lightning Suppression	Yes	Yes	Yes	No
5:1 Turndown	Yes	Yes	Yes	No
Zero & Span	Yes	Yes	Yes	Yes
Dimensions	19x125	30x220	19x125	30x220

Additional Info

- ◆ The Pressure measuring capsule is a piezo resistive temperature compensated silicon – stainless steel element with very low hysteresis, excellent long-term stability and high resolution.
- ◆ RT-4 Provides the current drive for the four – wire transducers. It is a surface mounted Remote Transmitter, 24Vdc or 12Vdc, 4-20mA with 5:1 turndown, zero and span controls and lightning suppression.

