
SUBMERSIBLE

LEVEL TRANSDUCER



MODEL SLX 160

FEATURES

- 0.9" Ceramic Diaphragm
- Wetted Parts: PVC, ABS, Nylon, TPE or Teflon
- Output: 2-Wire, Loop Powered, 4-20 mA DC, w/Integral Surge Suppression
- Plastic Body — Excellent Electrical Isolation
- Signal Cable: Teflon or TPE Jacketed (Thermoplastic Elastomer)
- Pendant/Cable Suspension Mounted
- Choice of ranges: ~12 inches to 69.3 Feet
- Internally Weighted & Encapsulated

APPLICATIONS

- Wet Wells — Sewage Pumping Stations
- Lake, Pond, Stream Level Monitoring
- Chemical tanks
- Water Storage & Recycling Systems
- Process Sumps
- Flow Sensing in Flumes and Weirs

Contegra's SLX 160 submersible level transducers reliably measure the level of liquids based upon the hydrostatic pressure of the liquid above the submerged sensor's diaphragm. The transducer provides an output signal that is directly proportional to the sensed level over the sensor's calibrated range.

The SLX 160 transducers provide superior service in adverse environments. Their wetted parts of PVC, ABS, nylon and the Teflon or TPE (Thermoplastic Elastomer) jacketed signal cable provide strong chemical resistance and electrical isolation.

MODEL SLX 160

Specifications

Pressure Elements (PSI):

1	Span: 0 - 2.3 ft. Max	0 - ~18" Min
3	Span: 0 - 6.9 ft. Max	0 - ~3.5' Min
5	Span: 0 - 11.5 ft. Max	0 - ~5.7' Min
7	Span: 0 - 16.1 ft. Max	0 - ~8.0' Min
10	Span: 0 - 23.1 ft. Max	0 - ~11.5' Min
15	Span: 0 - 34.6 ft. Max	0 - ~17.3' Min
30	Span: 0 - 69.3 ft. Max	0 - ~34.5' Min

The SLX 160-M is available with a factory calibrated custom span (e.g. 4-20 over 0-18 ft). Range availability is based on Pressure Element options.

Sensor Ratings — SLX 160-M

Accuracy: 0.25% over the full scale pressure range

Overpressure: 7X @ <= 3, 4.5X @ 5 & 7, 3X @ =>15

Operating: +32° non-freezing — +120°F

Wetted parts: PVC/ABS body, 0.9" Ceramic Diaphragm, Teflon® or TPE (Thermoplastic Elastomer) jacketed signal cable with integral vent tube, Nylon strain relief, Buna-N O-Ring.

Signal Cable Jacketing:

Teflon® or TPE jacket: The cable is shielded and contains a Kevlar® support member and a breather tube..

Cable Jacket Options:

T = Teflon(R)

R = TPE jacketed cable with Ropellant™ additive (Jacket color = Black)

W = TPE jacketed cable for use in potable water applications (Jacket color = Blue)

Output: Loop powered 12.5-30 VDC Class 2 supply, Output: 4-20 mA output proportional to the calibrated range

Mechanical: Height - 7.5", Diameter - 2.0" Cable Diameter - 0.26" nom.

Protection: The SLX 160-M Includes transient voltage suppressors (TVS), MOVs and surge arrestors. The PVC/ABS body provides enhanced electrical isolation from the surrounding environment.

Approvals: UL Listed 508 (pending).

Refer to www.Contegra.com for further specifications and updates including: range availability.



SLX160 sensor diaphragm (0.90" dia.)

Ordering Information (See the example shown beneath the following table**)

Generic Model: SLX 160-M-PR-CLR-SPU-B / PR = Pressure Range, CL=Cable Length & R/T/W = Cable Jacket, SP = Span/Range & U = Engineering Units, B = Option 'B'

Model	Output Version	Pressure Sensor	Cable Length (Feet in 10' Increments) & Cable Jacket Material	Calibrated Span/Range (SLX 160-M Only)	Options:
SLX 160	M = 4-20 mADC	PR	CLX	SPU ...or... FS	
		1	CL = Cable Length	SP = Span/Range	H = Hydrophobic Vent (Std)
		3	20 ft. included/min.	U = EngUnits :	A = Nema 4X Junction Box w/Sealed Breather
		5	10 ft. increments	P = PSI	B = Sealed Breather System
		7	X = Cable Jacket (Choose T, R or W)	F = Feet	E = Nema 4X Junction Box w/ Hydrophobic Vent
		10	T = Teflon®	... or ...	Other:(requires A or E above)
		15	R = TPE w/Ropellant™	FS = Full Scale	T = Transient protector
		30	W = TPE ("Natural")	(i.e. Sensor Max)	M = Meter NEMA 4X mADC loop-pwr (digital) (Option 'M' requires Option 'A' [enclosure])

Consult your Contegra representative, the factory, or www.Contegra.com for additional options

** Typical model numbers

The **SLX 160-M-5-40R-10F-H** is a transducer w/5 PSI sensor, 4-20 mA out over a 10 Foot excursion, 40'of cable and a hydrophobic vent.

The **SLX 160-M-5-40R-FS-H** is a transducer w/5 PSI sensor, 4-20 mA out over a Full Scale excursion (i.e, 11.6'), 40'of cable and a hydrophobic vent.

To calculate the "Full Scale" excursion multiply the sensor's PSI X 2.31. Example: 7 PSI X 2.31 Ft / PSI= 16.17' excursion.

TPE jacketed cable is available with and without Ropellant™ additive (Option 'R' and 'W' respectively). The Ropellant™ additive discourages the rodent's interest in the cable. It does not guarantee the rodent's disinterest. (Note: TPE = Thermoplastic Elastomer)

Kevlar and Teflon are registered trademarks of DuPont. CONTEGRA is a registered trademark and Ropellant is a trademark of Contegra Inc. Specifications are subject to change without notice.



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