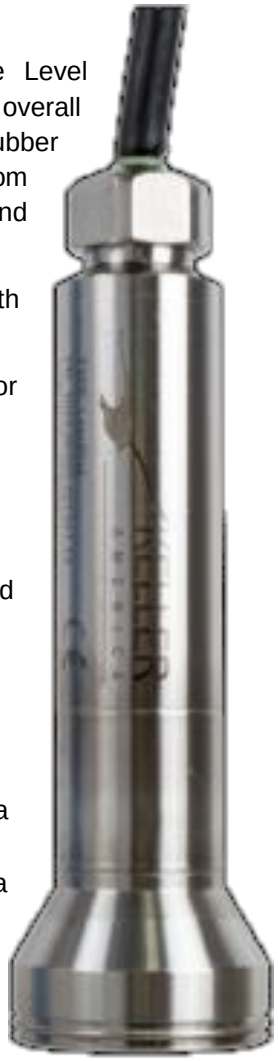
Level Sensor

MLPLR and MLPLCABLE-FT

Created for Wastewater pump stations



Specifically designed for extended service in sewage lift station environments, the Level Pressure Sensor for wastewater lift station features a wide sensing diaphragm yet small overall size. Unlike similar, competing models which feature a fragile Teflon®-coated rubber diaphragm, the Level Pressure Sensor incorporates a monolithic diaphragm formed from Kynar®, which combines the non-stick quality of Teflon with superior toughness and abrasion resistance.

Perfectly suited for pump control applications, the Level Pressure Sensor is compatible with any standard 2-wire, 4...20 mA current loop or 3-wire voltage systems.

Maid Labs Technologies's guaranteed lightning protection makes this transmitter ideal for installation in areas prone to chronic damage due to transients caused by lightning.

FEATURES

- 4...20mA models include guaranteed lightning protection at no additional cost.
- 16-bit internal digital error correction for cost-effective low Total Error Band (TEB)3.
- 316L SS housing construction.
- Non-fouling Kynar® diaphragm for superior resistance to puncture.
- 2-year warranty covers defects in materials and workmanship.
- User-rangeable analog output ensures compatibility as requirements change.
- RS485 modified-MODBUS compatible interface allows up to 128 transmitters on a single bus.
- Standard dual (analog & RS485) outputs simplify interface to controls, data collection, and telemetry systems.
- Built in the U.S.A. ARRA Section 1605 Compliant.

Output	White	Black	Red
2-wire (mA)	OUT / GND	+Vcc	N/A
3-wire (VDC)	GND	+Vcc	+OUT
Braided shield wire connected to transmitter housing			

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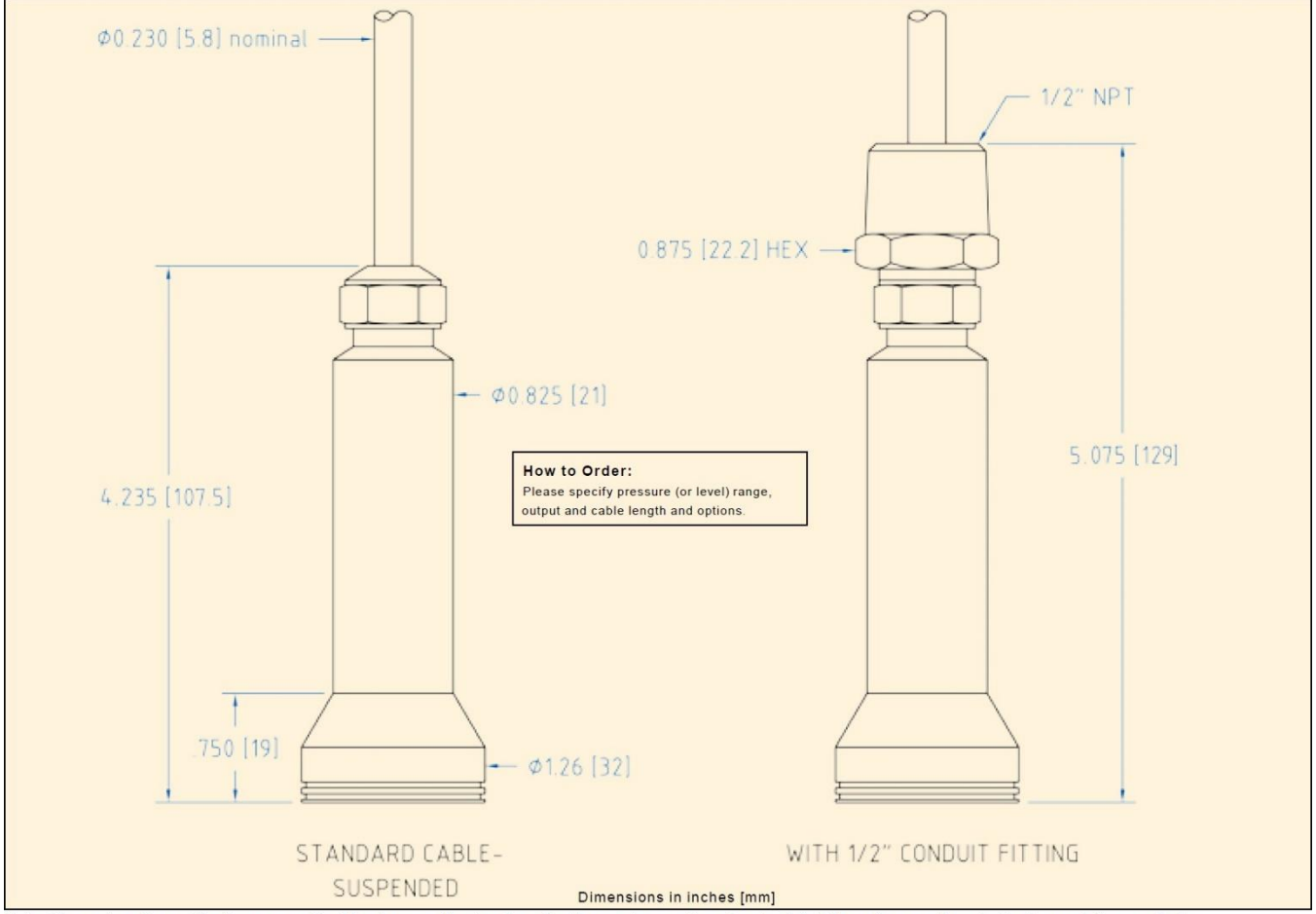
PARAMETERS

Parameter	Value	Comment
Pressure Ranges - Relatives	Infinite between 0...5 thru 0...100 ft W.C	Can be provided with custom calibration at no extra cost. For fluids other than water, the specific gravity must be given at the time the order is placed. Level range may be specified in units of PSI, inches WC or feet WC. Maid Labs uses the International Standard conversion of 2.3067 feet WC/psi.
Accuracy - Static Accuracy - Total Error Band	Standard ±0.2% FS Standard ±0.5% FS	Static accuracy includes the combined effects of non-linearity, hysteresis, and non-repeatability at room temperature (25°C). Total Error Band (TEB) includes static accuracy, plus thermal dependencies, over the compensated temperature range.
Output - Current Output - Voltage Output - Resolution	4...20mA + RS485 0...5, 0...10VDC + RS485 0.002%	4. Level range may be specified in units of PSI, inches WC or feet WC. Maid Labs uses the International Standard conversion of 2.3067 feet WC/psi.
Certifications - CE	EN50081-1, EN50082-2	
Electrical – Supply (4-20mA) Electrical – Supply (0-5VDC) Electrical – Supply (0-10VDC) Electrical – Load Resistance (mA) Electrical - Load Resistance (VDC)	11...28 VDC 8...28 VDC 13...28 VDC <(Supply-11V)/0.022A >4k ohm	Nominal values may be higher depending upon cable length. Internal lightning protection increases the minimum-required supply voltage from 8VDC to 11VDC, due to internal resistance of the surge protectors. In addition, cable resistance (~70Ω / 1000ft) adds to the supply requirement. In order to insure proper system operation, calculate the minimum required supply voltage (at the source) as follows: For two-part (internal+external) system (recommended): MINIMUM SUPPLY VOLTAGE = 11.6 + 0.022 (CABLE LENGTH x 0.07) VDC For internal only protector (standard with 4-20mA output): MINIMUM SUPPLY VOLTAGE = 11 + 0.022 (CABLE LENGTH x 0.07) VDC
Environmental – Protection Rating Environmental – Operating Temp. Environmental – Compensated Temp. Environmental – Wetted Materials Environmental - Cable Options	IP68 -10...60° C 0...50° C 316 L Stainless Steel Kynar® Polyamide Fluorocarbon Polyethylene for general purpose Hytrel for hydrocarbon Tefzel for chemical interaction	**Part number MLPLCABLE-FT required**. It represents one foot of cable
Dimensions (Cylindrical)	Ø 32 mm x 111 mm Ø 1.26 in x 4.37 in	D x H

Dimensions



Dimensions in inches [mm]

Note: Dimensions & specifications are subject to change without notice. For the most accurate and up to date information on all products please visit our website.