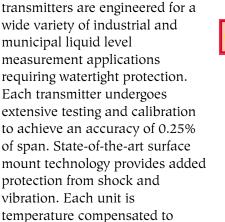




STI submersible liquid level



The transmitters feature a vented, watertight cable designed to withstand 220 lb. of strain. Longer cables are available on request. This enables the transmitter to be supported without any additional cabling. The unit meets IP68, the International Protection standard for electrical equipment, for submersion to 1000 ft.

ensure accuracy and long term

stability under extreme temperature variations.

The transmitter can be supplied with lightning protection to IEC 801-5 (1.5 KV) standards. Additional sensor weights are available when long cable lengths are utilized.

Applications

These compact, rugged submersible pressure transmitters are suitable for applications in tank liquid level measurement, water and wastewater, well depth measurement, and offshore water depth measurement (sea water).



PLN-500

Submersible Liquid Level Transmitters

 Simple to install liquid level measurement

 High precision, solid state signal: 4-20 mA



For the Latest Information

Try Our Fax Back System at 1/916/431-6544

On the Internet: www.stiapg.com E-mail: sales@stiapg.com





B49

Rev. 10.04

Specifications

Input: 10-30 VDC*

Accuracy

pressure products

Linearity (B.F.S.L.): 0.25% of span

Новые

Индустриальные

Hysteresis: 0.1% of span Repeatability: 0.05% of span 1 Year Stability: 0.2% of span

Response Time (10-90% full scale): 1 ms

Temperature

Effective Temperature Compensation: 32 to 122°F (0 to 50°C)

Media: 15 to 122°F (-10 to 50°C) Ambient: 15 to 175°F (-10 to 80°C) Storage: -30 to 175°F (-30 to 80°C)

Temperature Error: (Reference temperature 70°F (21°C))

On Zero (% span per 18°F (10°C)): 0.2 (< 0.4 for ranges < 100 INWC)

On Span (% span per 18°F (10°C)): 0.2

Electrical Connection: 40 ft. vented watertight cable with free end

Tensile strength: maximum 200 lb. Other cable lengths available

Enclosure Protection: Submersible up to 1000 ft. (IP68/NEMA 6)

Material

Wetted Parts: 316L SS and 304 SS

Cable: Polyurethane Shrink Tubing: Polyolefin Protective Cap: Polyamide

Transmitting Fluid: Silicone oil, other transmitting liquids available

Electrical Protection: Protected against reverse polarity, short circuit output and suppressor diode for high voltage protection. Optional lighting protection to IEC 801-5 (1.5 kV).

2-Wire Current Loop

Specifications are subject to change without notice.

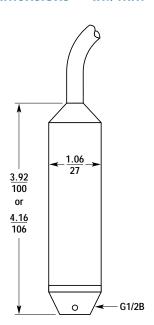
Wiring

Signal	Wire Color	
Supply +	Brown	
Signal -	Green	
3-Wire Voltage Output*	*	
Signal	Wire Color	
Supply +	Brown	
Supply-/Signal-	Green	
Signal +	White	



For PLN wiring schematics, see page B52.

■ Dimensions — in./mm



(Shown with protective cone in place.)

www.stiapg.com

Tel. 1/435/753-7300 1/888/525-7300

^{*} Standard and in stock

Standard Ranges Table

Series 500

Range		Maximum*	Burst**
Option	Range	(psi)	(psi)
50 INWC***	0-50 INWC	30	30
100 INWC	0-100 INW	30	30
150 INWC	0-150 INW(30	30
250 INWC	0-250 INW(60	60
400 INWC	0-400 INW(70	70
5 ^s	0-5 psi	30	30
10 ^s	0-10 psi	60	60
15 ^s	0-15 psi	70	70
25	0-25 psi	145	145
50	0-50 psi	245	245
100 ^s	0-100 psi	500	500
200 ^{S***}	0-200 psi	1160	1160
400 ^{S***}	0-400 psi	1160	1160

Notes:

27.7 INWC = 1 psi

- Stock models with 40 ft. of cable, others custom. Allow 6 weeks for delivery.
- Maximum pressure, causing no permanent changes in specifications but may lead to adjustable zero and span shifts.
- Burst pressure, leading to permanent nonadjustable changes in specifications (i.e. zero offsets) or destruction of the transmitter
- Optional, consult STI.

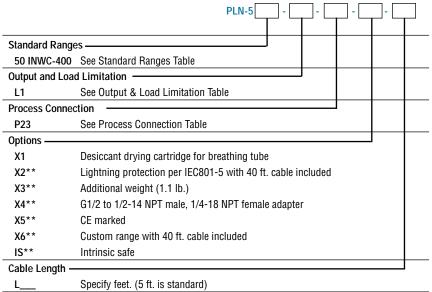
Output & Load Limitation Table

L1*: 4-20 mA, 2-wire, $R_{(max)} = ((V_S-12V)/$ 0.02 A) - (0.042 per ft. of cable)

Process Connection Table

P23*: G1/2B with removable plastic nose cone.

■ Ordering Information



^{**} Optional, consult STI.



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^{*} Standard

^{*} Standard

Wiring Schematics

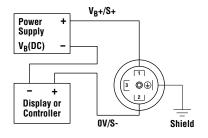
For the PLN-300, PLN-400, and PLN-500



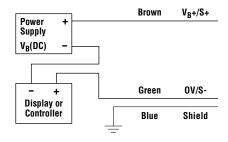
4-20 mA 2 Wire System

The 2 wire system connects the power supply, transmitter, and indicating/recording instruments in a series circuit. This creates a "current loop" with the transmitter functioning as a current regulating device.

DIN Connector (PLN-300, 400 and 700 Series only)



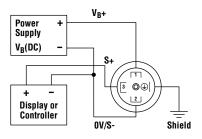
Flying Leads



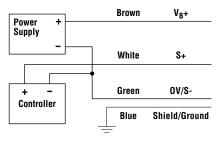
0-5 V, 1-5 V or 0-10 V 3 Wire System

The 3 wire system features separate leads for the signal and power supply. The third lead is common minus for both devices. The signal source and indicating/recording instrument are connected in series, the power supply in parallel.

DIN Connector (PLN-300, 400 and 700 Series only)



Flying Leads



For information on the PLN-300, see page B42.



For information on the PLN-500, see page B49.

Terminal Coding Notes:

 $V_{\rm B}$ + : Plus power supply

OV : Minus power supply (common, ground)

S+ : Plus output signal

S- : Minus output signal (common, ground)

Shield: Cable shield/transmitter body

The supply voltage must be higher than the minimum required voltage as determined by the load equation for the specific transmitter. Refer to the specifications section of the data sheets for additional information.