# P421



# Submersible Pressure Transmitter

### Precision Grade--Clog Free in Waste Water/ Sludge/ Slurry Applications

## Designed for clog free operation in slurry applications

Tel-Tru's P421 submersible pressure transmitter is designed for the OEM and end-users where continuous submersion in sludge/slurry applications is required. The P421's key feature is its clog free design of the sensing diaphragm, which improves reliability and lowers maintenance.

## Manufactured for reliability in harsh well environments

The P421 is manufactured to perform over time in harsh well environments. An internal network of MOV's and dual gas discharge tubes protect against lightning, while dual sealing techniques ensure the integrity of the waterproof seal. 100% of P421 transmitters are submerged at our factory for at least 24 hours.

#### "Backed-up" sensing diaphragm

The P421 all welded sensing diaphragm is "backed-up" with a solid piece of stainless steel and can withstand the most abrasive / cyclical applications.

#### Certification

Every P421 is shipped with a NIST traceable calibration certificate.

CE

Conforms to EN50081-2 and EN50082-2

#### Standard Features

Flush-clog free sensor Internal protection from lightning and EMI/RFI = $\pm 0.5\%$  FSO Static Accuracy

#### Available Options

=±0.25% FSO Static Accuracy Tefzel®Cable Low Power Consumption

Note: specifications are subject to change.



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MOV & Dual Gas Discharge Tube Lightning Protection Network



Internal EMI/RFI Filtering

# P421 Pressure Transmitter

# Submersible Level for Sludge/Slurry Applications 0-10 ft $H_2O$ through 0-500 ft $H_2O$



### Product Specifications

Electrical		Mechanical ————	
Excitation Output P421A P421B Zero Balance FSO Setting Resolution Response Time Insulation Resistance Reverse Polarity Warm-up Power Supply Effect	8-38 Vdc* 4-20 mA 0-5 Vdc* = ±1% FSO = ±1% FSO Infinite (±.001% FSO usable) < 5 mS 1000 MO @ 50 Vdc Protected < 10 mS = ±.002% FSO per V input	Pressure Ranges (Customer may specif Proof Pressure Burst Pressure Materials Pressure Port Electrical Connector Dimensions Weight	0-5 through 0-300 psi iy any range/eng. unit FOC) 2X Full Scale* 5X Full Scale* 316L SST plus cable* Flush mount per outline below* ½"-NPT Male submersible conduit fitting with 10ft of polyurethane cable* per outline below nominal 20 oz
EMI/RFI Lightning Protected Short Circuit Protected	Internal Filtering MOV & dual gas discharge tube Up to 40 Vdc	Environmental —	Depres 0 to 170 of
		Compensated Temp Operating Temp Ran Storage Temp Range	nge -40 to 200 °F
Per	formance		
Repeatability Temperature Effects	= $\pm 0.5\%$ FSO* (BFSL, RSS)* nearity, hysteresis & repeatability) = $\pm 0.1\%$ FSO = $\pm 1.5\%$ FSO over comp range* & FSO with reference at 70°F) = $\pm 0.25\%$ FSO per year	* Options Av	vailable
Note: specifications are subject Tel-Tru Manufact 408 St. Paul Stre Rochester, New	a coo	I ————————————————————————————————————	