



[www.in-situ.com](http://www.in-situ.com)

# Pressure Transducers

**Accurate and reliable 4-20mA pressure measurements**

## Now you can...

- Measure water level with high accuracy
- Compensate for barometric fluctuations
- Monitor in one-inch observations wells
- Easily swap cables in the field for custom applications
- Use for piping pressure applications

For precise measurements and rugged reliability, choose from In-Situ's full line of transducers! Each transducer is individually calibrated over its entire operating range resulting in extremely accurate and stable measurements. Even in harsh field environments. Plus, the small diameter of our transducers allows easy access to one-inch wells.

Rugged construction means years of quality performance. The PXD series is made with tough 316 stainless steel ensuring durability in most chemical environments. The PTX series is constructed of titanium.

Removable Quick-Connect cables

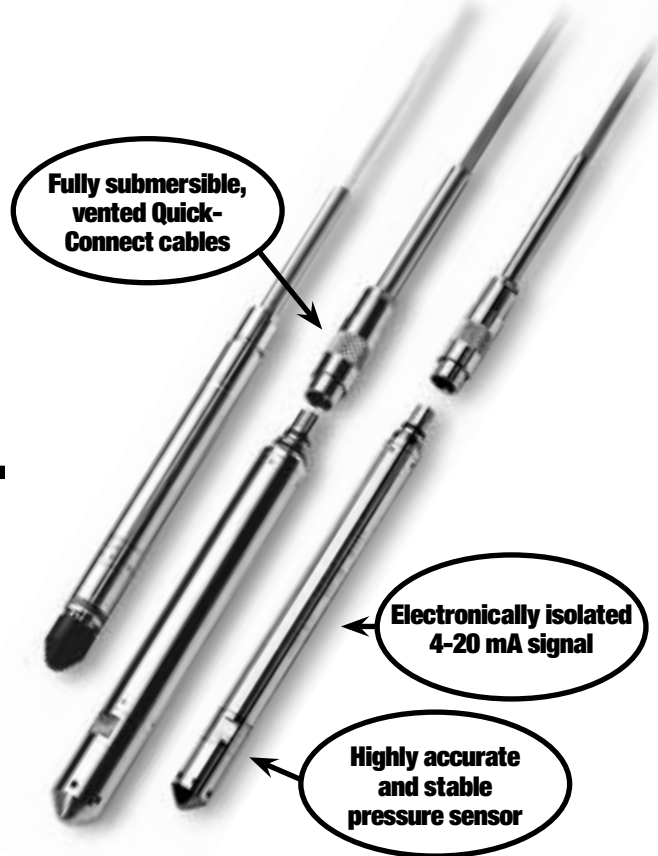
are available for PXD series transducers. With these submersible cables, you can change cable type and length in the field. Plus all cables are fully vented to compensate for barometric fluctuations. Absolute transducers are also available. The output is a 4-20mA signal so extremely long cable lengths can be used without loss of accuracy.

An NPT thread under the nose cone adapts it into pipe fittings.

Highly accurate In-Situ transducers are the perfect choice for pressure measurements. Use the best for your next job!

## Use them for...

<b>Aquifer characterization</b>	<b>Marine and reservoirs</b>
<b>Long-term monitoring</b>	<b>Packer installations</b>
<b>High pressure piping</b>	<b>Industrial &amp; municipal</b>
<b>Regulatory monitoring</b>	<b>PLC &amp; SCADA systems</b>



Quick-Connect cables are standard with PXD transducers. Now changing cable type or cable length is a snap! Cable is available in Teflon or Polyurethane.

### Quick-Connect Cables



Our transducers are available in ranges from 5 PSI to 1000 PSI. Also, pick between plastic or steel reels, big or small!

### Full line of pressure ranges



Our transducers are ready to be directly plugged into any Hermit Data Logger. No tools needed and no hassles!

### Easy connections



The new standard for pressure. Call us today to learn how this powerful water monitoring tool can work for you.

**1-800-446-7488 or visit us on the internet at [www.in-situ.com](http://www.in-situ.com)!**

## Pressure Transducers

### Reels

ABS plastic, up to 350 ft. (107 m) capacity  
 Small steel, up to 550 ft. (168 m) capacity  
 Large steel, up to 1500 ft. (457 m) capacity

*Cable is available in Teflon or Polyurethane. Both gauged and absolute sensors are available. Call for details.*



### How accurate is it?

Calculating your accuracy is easy. Simply convert the PSI range of the transducer to feet or meters and multiply by the accuracy specification. Accuracy is based on temperature at 15°C.

Range			Accuracy					
PSI	Feet	Meters	PXD-261		PXD-461		PTX-1830	
			± 0.05% full scale		± 0.04% full scale		± 0.1% full scale	
			inches	mm	inches	mm	inches	mm
5	11.53	3.52	--	--	--	--	0.14	3.52
10	23.07	7.03	--	--	--	--	0.28	7.03
15	34.60	10.55	0.21	5.27	--	--	0.42	10.55
20	46.13	14.06	0.28	7.03	--	--	0.55	14.06
30	69.20	21.09	0.42	10.55	--	--	0.83	21.09
50	115.33	35.15	0.69	17.58	--	--	1.38	35.15
100	230.67	70.31	1.38	35.15	--	--	2.77	70.31
250	576.67	175.77	3.46	87.88	--	--		
500	1153.34	351.54	--	--	5.54	140.61		
1000	2306.67	703.07	--	--	11.07	281.23		

*Call for other available ranges*

	PXD-261	PXD-461	PTX-1830
<b>Operating principle</b>	Stainless encased integrated silicon strain gauge bridge	Stainless encased integrated silicon strain gauge bridge	Titanium-encased silicon strain gauge bridge
<b>Wetted materials</b>	316 stainless steel, Viton®	316 stainless steel, Viton®	Titanium, 316 stainless steel, acetal
<b>Length</b>	8.5 inches (21.6 cm)	8.5 inches (21.6 cm)	7.86 inches (20.0 cm)
<b>Diameter</b>	0.86 inches (2.2 cm)	0.7 inches (1.78 cm)	0.69 inches (1.75 cm)
<b>Weight</b>	1 lb. (0.45 kg)	0.5 lb. (0.22 kg)	0.26 lb. (0.12 kg)
<b>Signal current</b>	4-20 mA	4-20 mA	4-20 mA
<b>Minimum warmup time</b>	50 milliseconds	50 milliseconds	50 milliseconds
<b>Range</b>	15 PSI (35 ft. water, 11 m.) 20 PSI (46 ft. water, 14 m.) 30 PSI (69 ft. water, 21 m.) 50 PSI (115 ft. water, 35 m.) 100 PSI (231 ft. water, 70 m.) 250 PSI (577 ft. water, 176 m.)	500 PSIA (1153 ft. water, 352 m.) 1000 PSIA (2307 ft. water, 703 m.)	5 PSI (11.5 ft. water, 3.5 m.) 10 PSI (23 ft. water, 7 m.) 15 PSI (35 ft. water, 11 m.) 30 PSI (69 ft. water, 21 m.) 50 PSI (115 ft. water, 35 m.) 100 PSI (231 ft. water, 70 m.) <i>Contact In-Situ for other ranges</i>
<b>Accuracy</b>	± 0.05% full scale at 15°C (59°F)	± 0.04% full scale at 15°C (59°F)	± 0.1% full scale at 15°C (59°F)
<b>Pressure rating</b>	2X full scale	1.5X full scale	2X full scale
<b>Operating temperature</b>	5° to 30°C (41° to 86°F)	5° to 30°C (41° to 86°F)	-20° to 60°C (-4° to 140°F) compensated: -2° to 30°C (28° to 85°F)
<b>Storage temperature</b>	-40 to +125°C (-40 to 257°F)	-40 to +125°C (-40 to 257°F)	-20 to 60°C / -4 to 140°F)
<b>Quick-Connect Cable</b>	Yes	Yes	No

**Purchase · Rent · Lease In-Situ Transducers Today!**



**In-Situ Inc.**

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(International and domestic calls) (toll-free in US and Canada)

**www.in-situ.com**

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\*\*FEP (fluorinated ethylene propylene) is the generic equivalent of DuPont Teflon.