



## UV400 - Stainless Steel Media Isolated Industrial Pressure Sensor and Transmitter

**CE** WORLDWIDE

### Overview

UV400 Pressure Sensor is design for industrial and offroad applications. It employs p-n junction free MEMS piezo resistive technology that is inorganically bonded for media isolation. Because of one-piece stainless steel structure, UV400 provides reliable operation in harsh environment. It is well suited for OEM machinery, process control, automation, plastic and alloy injection molding machines, hydraulic, etc.

### Applications

- \* OEM machinery,
- \* Process control
- \* Industrial Automation
- \* Plastic molding machines
- \* Alloy injection molding machines
- \* Hydraulic, etc.

### Benefits

- \* No welds, no internal O-rings, no fluid fill
- \* Rugged Design organics exposed to the pressure media
- \* Features digital compensation
- \* Temperature correction for high accuracy and stability.



### Performance @ 25°C (77°F)

Accuracy*	<±0.25% BFSL, typ.
Stability (1 year)	<±0.25% FS, typ.
Over range Protection	2X rated Pressure (4X optional)
Burst Pressure	10X or 40,000psi(whichever is less)
Pressure Cycles	>100 Million

Output	0-5V	1-5V	4-20mA	10mV/V**
Excitation	10-30VDC	10-30VDC	12-30VDC	10V excitation as max.
Zero Offset	<±0.5% of FS, typ.			<±2% of FS
Span Tolerance	<±0.5% of FS, typ.			<±2% of FS

Reverse Polarity Protection Yes

\* Accuracy includes non-linearity, hysteresis & non-repeatability  
\*\* 10VDC, Maximum

### Physical Description

Wetted Material	17-4PH, 316L, Hastelloy C276 (Optional)
Electrical Connection	Packard, Din 43650C, M12, Cable.

### Environmental Data

#### Temperature

Operating	-40 to 120°C
Storage	-40 to 125°C (-40 to 250°F)

#### Thermal Limits

Compensated Range	0 to 60°C (30 to 140°F)
TC Zero	<±1% of FS
TC Span	<±1% of FS

#### Other

Shock	100G, 11 msec, 1/2 sine
Vibration	10G peak, 20 to 2000Hz.
EMI/RFI Protection	Yes
Rating	IP-66 (Standard) IP-67 (Optional)

## Ordering Method

For Example:-

**UV400 A 000 A 4 L 0 C 000**

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①

Series	Code	Description
	400	

②

Pressure Unit	Code	Description
	A	kPa
	B	bar
	C	kg/cm2
	H	Inches H2O
	P	PSI

③

Pressure Range	000	Standard Pressure Range (3-Code)
Example	0d1	0.1
	2d5	2.5
	018	18
	725	725
	01K	1000
	5K5	5500
	10K	10000
*	K	1.00E+03
	d	Decimal Place

④

Pressure Type	Code	Description
	A	Absolute
	V	Vacuum
	G	Gauge
	S	Sealed Gauge
	X	Special Offset (See Option Code)

⑤

Header Thread	Code	Description
	2	1/2 MNPT
	4	1/4 MNPT
	8	1/8 MNPT
	5	M20x1.5 Male
	7	7/16-20 UNF Male
	9	9/16-18 UNF Male
	B	1/4 MBSPP
	Z	G1/4 Male

⑥

Wetted material	Code	Description
	P	17-4PH
	L	316L-SS
	C	718 Inconel
	H	Hastelloy C276
	T	Titanium

⑦

Output	Code	Description
	0	0-5V
	1	1-5V
	2	0-10V
	3	0.5-4.5V
	4	4-20mA
	8	0.5-4.5V Ratiometric
	9	10mV/V

⑧

Electrical Connection	Code	Description
	A	Din43650A Connector
	C	Din43650C Connector
	E	Deutsch DT04-4P
	J	1/2 MNPT Conduit w/ 1m cable
	P	Packard Metripack 150
	Q	1m Cable
	R	2m Cable
	Y	M12x1 - 4P

⑨

Options Code	Code	Description
	000	No Special Options (3-Digit Code)

## Dimensional Data

