



Model P895 Test & Measurement Grade Pressure Transducer

- **0.1% FS Accuracy**
- **Gage, Differential and Absolute Versions**
- **Low Temperature Error**
- **For Liquid or Gas Service**
- **FS Ranges from 2.22 In H₂O**
- **+/-5 Vdc and 4-20 mA Output Signals**

Description:

The Validyne P895 is a test and measurement grade pressure transducer for applications requiring high accuracy and outstanding performance through ambient temperature changes. The P895 is digitally compensated and corrected to provide high accuracy pressure measurement in a robust cylindrical form factor.

The P895 is designed for a wide variety of pressure measurements where high resistance to vibration and superior stability through temperature change is required. The P895 accepts both liquids and gases.

The zero and full-scale output calibrations are set by potentiometer adjustments accessible from the top cover.

The + pressure port is 1/4" NPT male pipe thread. The - port is a 5/16" straight thread port fitted with a 1/4" male NPT adapter. Both ports can be changed using the appropriate fitting adapters to provide the most convenient connections.

The P895 has 1/4 inch NPT pressure port connections and measures just 2.25" OD x 8" overall.

The P895 is DC powered and is available in the most popular analog output versions including +/-5 Vdc and 4-20 mA. A CAN Bus version is also available

The P895 has a standard six-pin Amphenol electrical connector.

The P895 is Ideal for:

- **Laboratory Pressure Measurement**
- **Automotive Test Cells**
- **Any High Accuracy Application**

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Questi prodotti sono distribuiti e supportati in Italia da:



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P895 Specifications

General Specifications –

Ranges:

P895D/G: +/-0.08 psid to +/-3200 psid

P895A: 0 - 0.08 psia to 0 - 3200 psia

Accuracy:

P895: +/-0.1% FS, includes non-linearity, hysteresis and non-repeatability

Overpressure:

P895D/G: 400% FS up to 4000 psi maximum

P895A: 20 psia or 400% FS, whichever is greater, up to 4000 psia maximum

Line Pressure:

P895D/G: 3200 psig maximum, with zero shift less than 1%/Kpsi

Pressure Ports:

P895D: 1/4" male NPT, + port
1/4" female NPT, - port

P895A: 1/4" male NPT, single port

Environmental Specifications -

Operating Temp: 0 to +160 F

Compensated Temp: 40 to +140 F

Temperature Error: +/-0.5% FS
Over Compensated
Temperature Range of
40 F to +140 F

Sensor Physical Specifications -

Pressure Media: Liquids & gases compatible with 410 SST and Inconel

O-Rings: Buna-N Standard, other compounds available

Pressure Cavity Volume: 4 e-3 cu in, each port

Volumetric Displacement: 3 e-4 cu in at FS

Weight: 32 Oz.

Power Requirements -

Power Supply: +9 to +55 Vdc

Current Draw: 3 mA, typ

Insulation Resistance: 100 Mohms, any terminal to case.

Output Signals -

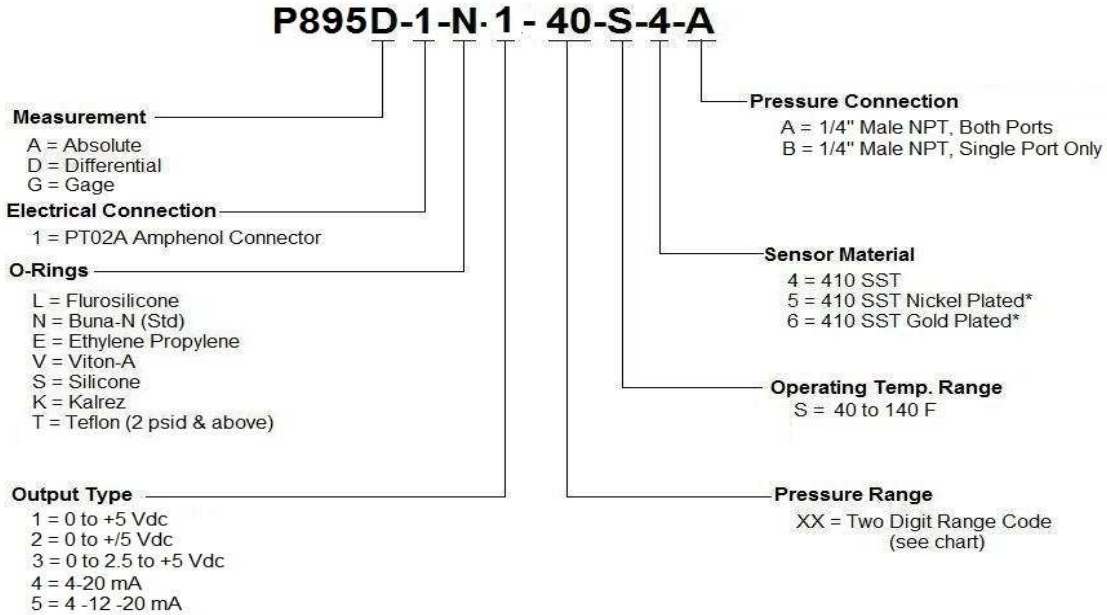
Analog Output: 0 to +5 Vdc
0 to +/-5 Vdc
4-20 mA

Zero Balance: Via External Adjustment

Span: Via External Adjustment

Output Noise: 2 mVrms

P895 Test & Measurement Pressure Transducer Ordering Information



Output Signal Types:

Absolute and Gage pressure transducers have options 1 and 4 for signal outputs. Differential pressure transducers will have options 2, 3 or 5 for signal outputs.

Option	- FS Pressure	Zero Pressure	+FS Pressure	Models
-1		0 Vdc	+5 Vdc	P895A, P895G
-2	-5 Vdc	0 Vdc	+5 Vdc	P895D
-3	0 Vdc	+2.5 Vdc	+5 Vdc	P895D
-4		4 mA	20 mA	P895A, P895G
-5	4 mA	12 mA	20 mA	P895D

Mating Electrical Connector:

Validyne p/n 1280-1002 – Order Separately

Pressure Ports:

Differential and gage pressure transducers will have 1/4" male NPT pressure connections for + and – pressure ports.

Absolute pressure transducers will have a single 1/4" male NPT pressure connection located at the bottom of the unit. No – pressure port is supplied.

Wetted Materials:

Absolute transducers are available only in 410 SST (option -4)

Validyne Engineering

818-886-2057 – www.validyne.com – sales@validyne.com

PRESSURE RANGE CHART						
Range Dash No.	PSI	IN HG.	IN H₂O	KPA	TORR	CM H₂O
20	.125	.25	3.5	.86	6.5	8.80
22	.20	.41	5.5	1.40	10.3	14.0
24	.32	.65	8.9	2.2	16.5	22.5
26	.50	1.02	14.0	3.5	25.8	35.0
28	.80	1.6	22.2	5.5	41.4	56.0
30	1.25	2.5	35.0	8.6	65.0	88.0
32	2.0	4.1	55.0	14.0	103	140
34	3.2	6.5	90	22.0	165	225
36	5.0	10.2	140	35.0	258	350
38	8.0	16.0	222	55.0	414	560
40	12.5	25.0	350	86.0	650	880
42	20	41.0	550	140	1030	1400
44	32	65.0	890	220	1650	2250
46	50	102	1400	350	2580	3500
48	80	160	2220	550	4140	5600
50	125	250	3500	860	6500	8800
52	200	410	5500	1400	10300	14000
54	320	650	8900	2200	16500	22500
56	500	1020	14000	3500	25800	35000
58	800	1600	22200	5500	41400	56000
60	1250	2500	35000	8600	65000	88000
62	2000	4100	55000	14000	103000	140000
64	3200	6500	89000	22000	165000	225000

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