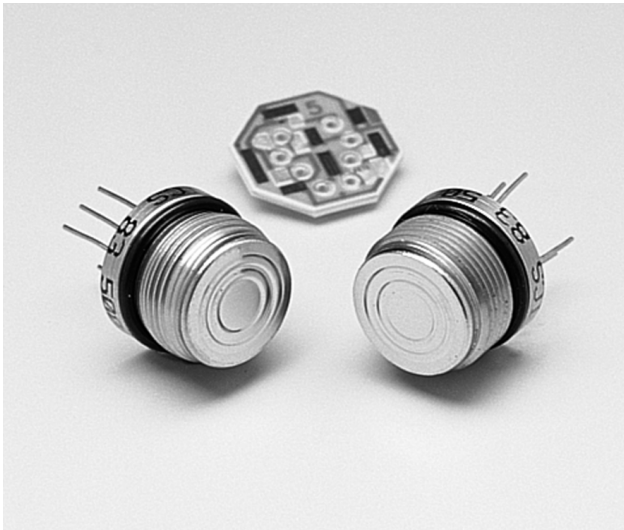


## Temperature Compensated

- ▶ **Hydraulics**
- ▶ **Medical Instruments**
- ▶ **Process Control**
- ▶ **Robotics**
- ▶ **Refrigeration/Compressors**
- ▶ **Pressure Transmitters**



- ▶ Weldable
- ▶  $\pm 0.5\%$  Pressure Non-linearity
- ▶  $\pm 1.0\%$  Temperature Performance
- ▶ Compensated or Uncompensated Versions
- ▶ 1.0% Interchangeable Span (provided by gain set resistor)
- ▶ Solid State Reliability
- ▶ Low Power

Range	psia	psis
0 to 300	●	●
0 to 500	●	●
0 to 1000	●	●
0 to 3000	●	●
0 to 5000	●	●

**COMPENSATED**

9/16-32 [14.3-32] UN-2A THREAD

316 STAINLESS STEEL

SUBSTRATE (COMP ONLY)

6X  $\phi$ .018 [0.46] PINS, 52 NICKEL ALLOY, NIB PLATED

$\phi$ .50 [12.7]

.44 [11.1]

.10 [2.5]

.50 [12.7]

**NON-COMPENSATED**

SUBSTRATE

7/8  $\phi$ .8

.64 HEX [16.3]

PINS ON .30 [7.6] B.C.D.

OIL FILL/BALL SEAL

45° TYP

2X BLANK HOLE FOR THREADING

$\phi$ .60 [15.2]

$\phi$ .44 [11.1]

DIMENSIONS ARE IN INCHES [mm]

PERFORMANCE SPECIFICATIONS

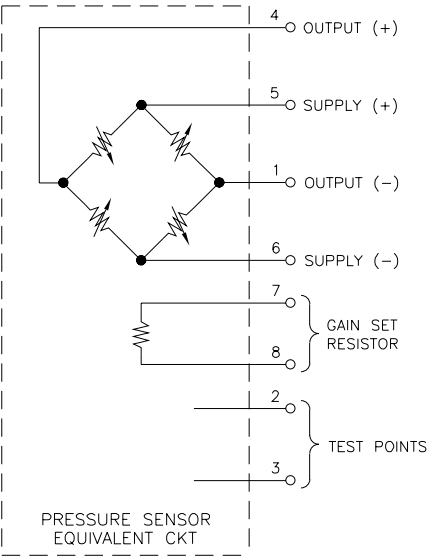
Supply Current: 1.5mA  
Ambient Temperature: 25°C (Unless otherwise specified)

PARAMETERS	Models 80 and 83				NOTES
	MIN	TYP	MAX	UNITS	
Full Scale Output Span	50	100	200	mV	
Zero Pressure Output			5	mV	1,2
Static Accuracy			0.5	±% Span	3
Input & Output Resistance	4000	4500	6000	Ω	
Temperature Error – Span			1.0	±% Span	1, 4
Temperature Error – Zero			1.0	±% Span	1,4
Supply Current		1.5	2.0	mA	5
Output Load Resistance	5			MΩ	
Insulation Resistance (50 VDC)	50			MΩ	6
Pressure Overload			3X	Rated	7
Operating Temperature	-20°C to +85°C				
Storage Temperature	-40°C to +125°C				
Media	Compatible with 316 Stainless Steel				
Weight	12 Grams				

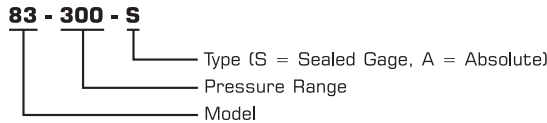
- Notes**

  1. The Model 83 has a thick film ceramic substrate that contains the specific external resistors, trimmed to the correct value for compensation, and fits directly over the 6 electrical pins for customer soldering. Two additional pins can be connected by the user to the ceramic substrate for use of the gain set resistor.
  2. Measured at vacuum for absolute (A) and one atmosphere for sealed gage (S).
3. Includes repeatability, pressure hysteresis, and pressure non-linearity (best fit straight line).
  4. Temperature range: 0-50°C in reference to 25°C.
  5. Guarantees output/input ratiometricity.
  6. Between case and sensing element.
  7. 3X or 7,500 psi maximum, whichever is less.

CONNECTIONS



ORDERING INFORMATION



APPLICATION SCHEMATIC

