

PRESSURE TRANSMITTER

706

- SS OR CERAMIC SENSOR ● ALL STAINLESS STEEL ENCLOSURE ●
- FULLY WELDED & SEALED ● TEMPERATURE COMPENSATED ●
- REVERSE POLARITY PROTECTED ● LOW COST AND COMPACT SIZE ●



MODEL 706 with SS Sensor



MODEL 706 with Ceramic Sensor

SWITZER Model 706 Pressure Transmitters are low cost and compact sized model for OEM customers for higher volumes, demanding commercial and heavy industrial applications. This is suitable for both liquid and gas measurements and even for aggressive media like contaminated water, steam and corrosive fluids.

The instrument is offered with two types of sensors – Stainless Steel or Ceramic. The pressure cavity in the transmitter with SS sensor is machined from a solid piece of 17-4 PH stainless steel. The ceramic sensor is of material Al_2O_3 which has excellent corrosion and abrasion resistance and can be used in any kind of aggressive applications.

GENERAL SPECIFICATIONS

Parameter	Transmitter with SS Sensor	Transmitter with Ceramic Sensor
Enclosure Protection	Weatherproof to IP : 65	
Electrical		
Sensor	Piezo-resistive element 17-4 PH SS	Piezo-resistive element - Ceramic Al_2O_3
Accuracy	$\pm 0.25\%$ of full scale	$\pm 0.4\%$ of full scale
Total error band	$\pm 1\%$ of full scale over compensated temp. range	
Output	4–20 mA, 2-wire current	
Power Supply	9 to 30V DC	10 to 35V DC
Output Load (2-wire)	750 Ohms at 24V DC power supply	700 Ohms at 24V DC power supply
Electrical Connection	4 way DIN 43650-C connector with screwed terminal	
Mechanical		
Max. Working Pressure	Refer Table	
Process Connection	1/4" BSPM Std. Other connections are optional with adaptors	1/4" NPTM Std. Other connections are optional with adaptors
Weight	90 gms	80 gms
Mounting	Direct online	
Medium Compatibility	All material compatible with 17-4 PH SS	All material compatible with Ceramic Al_2O_3
Temperature		
Process Temperature	(–)40 to (+)125°C	(–)25 to (+)125 °C
Compensated Temperature	(–)20 to (+)85°C	(–)25 to (+) 125°C
Ambient Temperature	0 to 70°C	



RANGE TABLE

Stainless Steel Sensor			Ceramic Sensor		
Range Code	Range (in BAR) *	Maximum Working Pressure (in BAR)	Range Code	Range (in BAR) *	Maximum Working Pressure (in BAR)
004	4	8	001	1	2
007	7	14	002	2	4
010	10	20	005	5	10
016	16	32	010	10	20
020	20	40	020	20	40
030	30	60	050	50	100
040	40	80	100	100	200
070	70	140	200	200	400
100	100	200	400	400	650
160	160	320	600	600	880
200	200	400			
350	350	700			
400	400	800			
600	600	1200			
700	700	1400			

* All Ranges starts from '0'

ORDERING MATRIX

Basic Model No. _____ 706

Sensor Type

Stainless Steel _____ S

Ceramic _____ C

Range

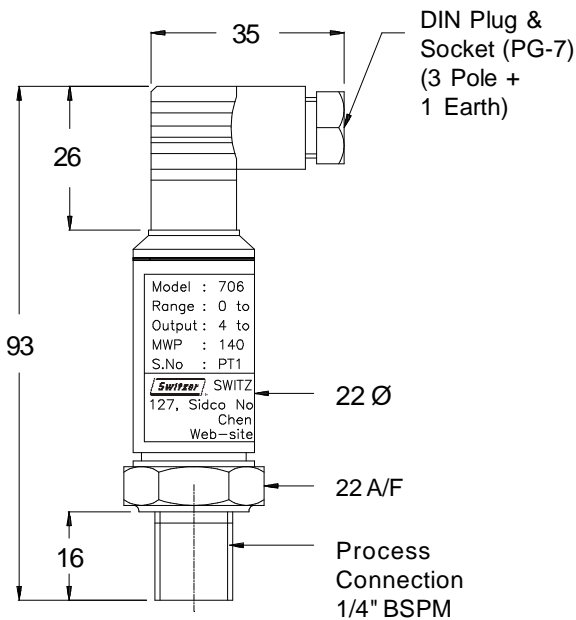
Select 3 digit code from Range table _____

Notes :

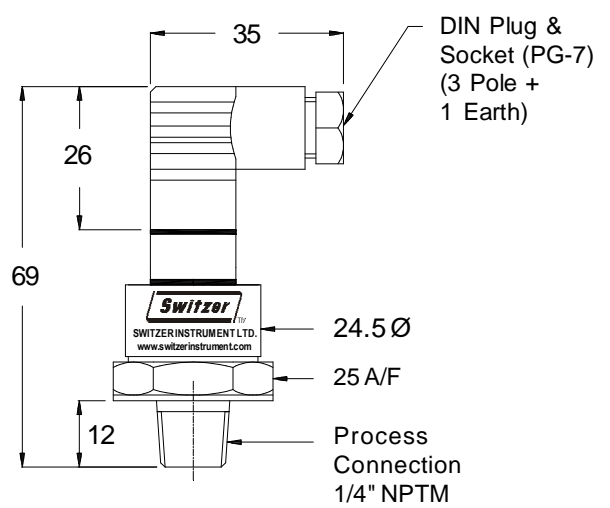
1. Non-standard process connection will have to be specified while ordering. Adaptors will be supplied along with the instrument at extra cost.
2. 3 digit Range Codes are different for sensor types. Certain Range Code are not common for both sensor types. Select the appropriate code from the respective table column.

DIMENSIONAL DRAWING

Transmitter with SS Sensor



Transmitter with Ceramic Sensor



All dimensions are in mm

This is not a contractual document. Prior notification of changes in specifications is impracticable due to continuous improvement

FOR SWITZER'S OFFICES IN INDIA

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<http://www.switzerinstrument.com/offices.htm>