



Summary:

Flowtech Smart Pressure Transmitters of Flow-SPT Series can accurately measure the pressure of all types of gases, vapours and liquids used in refineries, petrochemicals, oil & gas, power, chemical industries, food processing, pharmaceutical industries and Water Industry. Based on a mechanical and rugged silicon sensor & capacitive sensor, the Flow-SPT Model is suitable for Absolute & Gauge Pressure Measurements.

Features:

- Piezo Resistive & Capacitive Sensor
- ATEX Certified
- · Long Operation Life
- · Excellent Long Term Stability
- · Two Wire System
- · Range-ability 100:1
- · LCD Display with Backlight
- Faster Response Time
- · Application flexible with HART Communication

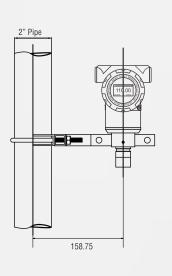


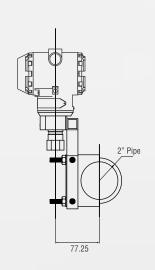
Pressure Transmitter

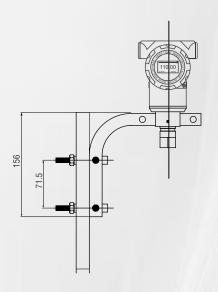
FLOWITECH 01

Drawing & Dimension

1. Panel Mounting







Note:

- Please follow the wiring method correct wiring as diagrams. If reverse, because the
 transmitter used protection measures, will be no signal output. The transmitter power can
 work, after 30 minutes preheating, output signal will be more stable and reliable.
- Transmitter for use in non-corrosion harm ofmedium on stainless steel (except special anticorrosion type).
- The maximum temperature should not exceed the rated overload. The transmitter pressure end cannot be directly connected electrically conductive, corrosive liquid or gas.
- Precision measuring instruments, it is prohibited to beat, strong clamping, removing.
- If possible, the instrument should be installed in the ventilation, drying, no corrosion, shade place. As theharsh environment, proper measures shall be taken to protect the instrument.
- If quality problem of product, with the guarantee card and instructions return the factory repair and replacement.
- Non-professional personnel do not disassemble the instrument circuit board or change configuration

FLOWITECH 02

Technical Specifications

OUTPUT SIGNAL

Output	4-20mA/4-20mA + HART
Supply Voltage	12.5 - 45 VDC
Signal Range	3.9mA - 20.8mA
Measuring Range	Refer Pressure Range Table (in Model De-codefication)

ELECTRICAL PROTECTION

Insulation Resistance	>100 MΩ at 100 VDC
Wiring Protection	Protection against over voltage & Short Circuit
Reverse Polarity Protection	Available

TEMPERATURE LIMITS

Ambient Conditions	-20 to 70°C
Storage	-40 to 85°C
Ingress Protection	IP 67
Electromagnetic Compatibility (EMC)	Compliant with IEC 61000-4-3 & IEC 61000-4-6 Radiated & conducted Susceptibility

PERFORMANCE

Accuracy	1.) 0.25% M.V. 2.) 0.075% FSD * In case of remote seal process connection the accuracy will be less than +/-1% of URL		
Power Supply Effect	<± 0.005% of calibrated SPAN per volt.		
Ingress Protection	< 0.2% of SPAN/g @ 200Hz		
Installation Position Effect	Zero shift up to ≤+/- 0.15% of URL, which can be calibrated out. No SPAN Effect		
Thermal Effect	Range code 4 to 8	Zero error = +/-0.3% URL per 28°C	
		Total error=+/-0.3% URL +0.25% of Calibrated Span per 28°C	
	Double the effect for Range Code 3,2		
Turndown Ratio	100:1		
Turn On Time	Less than 5 Sec.		

FLOWTECH 03

Technical Specifications

PERFORMANCE

Response Time	200 ms (without considering electronic damping)	
Damping	0.1 to 30.0 Sec.	
Humidity	5-98% Relative Humidity	
Stability	Less Than +/-0.2% of URL per year	
Over Pressure	2 Times max. Pressure Range	
Burst Pressure	3 Times max. Pressure Range	

Physical Specifications

Process Connection	1/4 NPT (M/F), 1/2 NPT (M/F), 1/4 BSP (M/F), 1/2 BSP (M/F)	
Diaphragm	Ss316 / SS316L / Hastelloy C / with Remote Seal	
Seals	Viton/Neoprene/Red Silica/EPDM	
Wetted Parts	Ss304/SS316/SS316L/Hastelloy C	
MOC Electronic Enclosure	Die Cast Aluminum PU Painted	
Sight Glass	Laminated Safety Glass	
Filling Fluid	Silicon Oil / Inert (for Capacitive Sensor)	
Electrical Connection	M20*1.5/1/2" NPT (F)	

Others

Display Type	LCD Display
Display Visible Range	32.5 x 22.5 mm
Main Display	5 - Digit
Digit Height	8 mm
Bar-graph	51 Segments
Weight	Standard Model approx 1.3 Kg
Certification	CE
	ATEX Certification

ГІОШТЕСН **О4**



Product Ordering Information

Order Code for Pressure Transmitter Decodification

	Description	Code
Measuring Type	Absolute Pressure	AP
.,,,,,	Gauge Pressure	GP

	Description	Code
Enclosure	AL. Die Cast Weatherproof	E1
Туре	AL. Die Cast Ex Proof	E2
	Flameproof IIA, IIB & IIC	E3

	Description	Code
	-1 to 0 Bar	PR 1
	-0.35 to 0 Bar	PR 1
	-0.2 to 0 Bar	PR 1
	0 to 0.1 Bar	PR 1
W.	0 to 0.35 Bar	PR 1
11.0	0 to 0.7 Bar	PR 1
1///	0 to 1 Bar	PR 1
	0 to 1.6 Bar	PR 1
	0 to 2.5 Bar	PR 1
M_MM_1	0 to 4 Bar	PR 1
Pressure Range Type	0 to 4 Bar	PR 1
	0 to 6 Bar	PR 1
	0 to 10 Bar	PR 1
	0 to 16 Bar	PR 1
	0 to 20 Bar	PR 1
	0 to 25 Bar	PR 1
	0 to 60 Bar	PR 1
	0 to 100 Bar	PR 1
	0 to 250 Bar	PR 1
	0 to 400 Bar	PR 1
	0 to 1000 Bar	PR 1
	Customized Range	OTH (Mention Rang

*Absolute Pressure
Min.: 0.35 Bar; Max.: 30 Bar
Gauge Pressure
Min.: 0.1 Bar; Max.: 1000 Bar

	Description	Code
Output	4-20mA	01
	RS 485	02
	4-20mA + HART	03

	Description	Code
	1/4 " NPT M	P1
	1/2 " NPT M	P2
	1/4 " BSP M	P3
	1/2 " BSP M	P4
Communication Output	1/4 " NPT F	P5
Gutput	1/2 " NPT F	P6
	1/4 " BSP F	P7
	1/2 " BSP F	P8
	M20*1.5	P9
	Flush Diaphgram (Triclover)	P10
	Flush Diaphgram (Srewed Connection)	P11
	Diaphgram (Seal)	P12
	5 Mtr Capillary	P13
	Others	OTH

Diaphgram MOC	Description	Code
	SS316L	D1
	Hastalloy-C	D2
	Others	ОТ

	Description	Code
MOC of Sensor, Flange,Adapter	SS304	N1
	SS316	N2
	Others	OT

Mounting Bracket	Description	Code
	MS	MB 1
	SS304	MB 2
	SS316	MB 3
	Others	NA

Power Supply Type	Description	Code
	24 VDC	PS 1
	230 VAC	PS 2
	12 VDC	PS 3
	110 VAC	PS 4

ГLОШТЕСН **05**



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