

Pressure Switches / Transmitters**Series: GPS / GPGT**

Srl.	Products	Model
A)	Pressure Switch-Indicating	GPSI
1	Pressure Switch-Indicating type (Dry Case-Weatherproof)	GPSI-BDW
2	Pressure Switch-Indicating type (Dry Case-Flameproof)	GPSI-BDF
3	Pressure Switch-Indicating type (Liquid Filled Case-Weatherproof)	GPSI-BLW
4	Pressure Switch-Indicating type (Liquid Filled Case-Flameproof)	GPSI-BLF
5	Pressure Switch-Indicating type-Low Pressure (Dry Case-Weatherproof)	GPSI-DDW
6	Pressure Switch-Indicating type-Low Pressure (Dry Case-Flameproof)	GPSI-DDF
B)	Pressure Switch-Blind	GPSB
1	Pressure Switch-Blind type (Bellow sensing)	GPSB-B
2	Pressure Switch-Blind type (Diaphragm sensing)	GPSB-D
3	Pressure Switch-Blind type (Piston sensing)	GPSB-P
C)	Pressure Gauge with Transmitter	GPGT
1	Pressure Gauge with Transmitter (Dry Case)	GPGT-BD
2	Pressure Gauge with Transmitter (Liquid filled Case)	GPGT-BL
3	Pressure Gauge with Transmitter (Solid Front-Dry Case)	GPGT-BDSF
4	Pressure Gauge with Transmitter (Solid Front-Liquid filled Case)	GPGT-BLSF
Reference standards:- EN-837 for construction and EN 837-1, ISO-7, ANSI B1.20.1 for connection, EN-60947-5-2 for NAMUR switch, , BS-6134-1991 for Blind switch		
Note: Part of our development programs, product specifications, photos, drawings, dimensions and other information provided in catalogue/website may change without any notice.		

A) Pressure Switch-Indicating general specifications

Series: GPSI

Srl.	Products	Model
1	Pressure Switch-Indicating type (Dry Case-Weatherproof)	GPSI-BDW
2	Pressure Switch-Indicating type (Dry Case-Flameproof)	GPSI-BDF
3	Pressure Switch-Indicating type (Liquid Filled Case-Weatherproof)	GPSI-BLW
4	Pressure Switch-Indicating type (Liquid Filled Case-Flameproof)	GPSI-BLF

Case Type	: Dry, Liquid filled
Dial Size	: 100mm (4"), 150mm (6")
Case Material	: SS304, SS316 with bayonet bezel, Die cast Aluminium with screwed bezel.
Protection	: Weatherproof to IP67, IP68, Flameproof IIA/IIB, Flameproof IIC
Dial Material	: Aluminum dial with black marking on white background.
Pointer	: Light weight balanced Aluminium
Window	: Safety glass (shatterproof/toughened)
Movement	: SS304, SS316, Brass
Bourdon	: SS316, SS316Ti, SS316L, Monel
Socket	: SS316, SS316Ti, SS316L, Monel
Range	: -1 to 1600Kg/Cm ² (Compound -1 to 39Kg/Cm ² , Pressure 0 to 1600 Kg/Cm ²)
Indication Accuracy	: ±1%FSD
Micrometer Pointer	: Internal for zero adjustment
Blow-out Disc	: On top of case (with weatherproof case only)
Connection	: Size : 1/4", 3/8", 1/2", 3/4", 1", M20x1.5 Type : NPT, NPS, BSP, BSPT, JIS-PF, JIS-PT, G, R, Rp (Male / Female) (1/2" NPT(M) standard up to 1000 Kg/Cm ² & Bottom entry 1/2"BSP(M) above 1000 Kg/Cm ² others on request)
Entry & Mounting	: Bottom entry-local mounting, Bottom entry-surface mounting, Bottom entry-2" pipe mounting, Back entry-local mounting, Back entry-flush panel mounting
Service Temperature	: Ambient -20 to +60°C & Process up to +100°C
Temperature Effect	: Within ±0.4%FSD/10°C when temperature changes from reference of 20°C
Over Range	: 125%FSD up to 100 Kg/Cm ² / 115% FSD for higher ranges
Switch	: Electrical Contact, Micro-Switch 1SPST - 30VA@230VAC - adjustable range - normally open - closed on pressure rise or vice versa (specify action required), 2SPST - 30VA@230VAC - independently adjustable range - 1 normally open other normally closed or both normally open or both normally closed, 1SPDT - 5A@230VAC (3A@28VDC) Micro-Switch - adjustable range, 2SPDT - 5A@230VAC (3A@28VDC) Micro-Switch - adjustable range, NAMUR Single switch - 8.32VDC nominal & 5 to 25VDC operating, NAMUR Double switch - 8.32VDC nominal & 5 to 25VDC operating,
Switch Accuracy	: Throughout range adjustable externally for SPST & SPDT adjustable between 10% & 90% of range externally for NAMUR

Note:

- 1) Measuring units Kg/Cm², bar, psi as standard, others on request
- 2) Bourdon in SS316Ti recommended to ensures better accuracy & repeatability
- 3) Specify filling liquid type from optional items list for liquid filled gauge, if required.
- 4) SS case available with or without Liquid filled (weatherproof only)
- 5) Aluminium dry case available in weatherproof or flameproof (bottom entry-surface mounting)

- 6) SPST (electrical contact) offered in weatherproof case only.
- 7) Diaphragm (Chemical) Seal & Capillary extension available on request
- 8) Recommended to use with Diaphragm Seals, Syphon, Impulse Tubing, Cooling Tower etc for service temperature above 100°C
- 9) Separately mounted contact assembly suitable to 5A@230VAC offered optionally



Srl.	Products	Model
5	Pressure Switch-Indicating type -Low Pressure (Dry Case-Weatherproof)	GPSI-DDW
6	Pressure Switch-Indicating type -Low Pressure (Dry Case-Flameproof)	GPSI-DDF

Dial Size	: 100mm (4"), 150mm (6")
Dial Material	: Aluminum dial with black marking on white background.
Pointer	: Light weight balanced Aluminium
Window	: Safety glass (shatterproof/toughened)
Case Material	: SS304, SS316 with bayonet bezel, Die cast Aluminium with screwed Bezel.
Protection	: Weatherproof to IP67, IP68 (IS13947 part-I/IEC60529), Flameproof IIA, IIB (NEC Cl.-1, Div.-2. Gr.C&D), Flameproof IIC
Top Chamber	: SS304, SS316, SS316L
Movement	: SS304, SS316
Diaphragm	: SS316, SS316L, SS316 PTFE lined, SS316L PTFE lined, Titanium, Hastelloy-B, Hastelloy-C, Nickel, Monel, Inconel-600, Inconel-625
Socket	: SS304, SS316, SS316L
Bottom Chamber	: Select material from above diaphragm material
Range	: 0-6000mmWC, 0-10000mmWC/1KgCm ² , 0-16000mmWC/1KgCm ² ,
Accuracy	: ±2%FSD
Micrometer Pointer	: Provided for zero reset
Blow-out Disc	: On top of case (with weatherproof case only)
Connection	: Size : 1/4", 3/8", 1/2", 3/4", 1", M20x1.5 Type : NPT, NPS, BSP, BSPT, JIS-PF, JIS-PT, G, R, Rp (Male / Female) (1/2" NPTM standard, others on request)
Entry & Mounting	: Bottom entry-local mounting, Bottom entry-surface mounting, Bottom entry-2" pipe mounting
Service Temperature	: Ambient -20 to +60°C & Process up to +100°C
Temperature Effect	: Within ±0.8%FSD/10°C when temperature changes from reference temperature of 20°C
Switch	: Electrical Contact, Micro-Switch 1SPST, 30VA@230VAC, adjustable range, normally open, closed on pressure rise or vice versa (specify action required) 2SPST, 30VA@230VAC, independently adjustable range, 1 normally open other normally closed or both normally open or both normally closed. 1SPDT, 5A@230VAC (3A@28VDC) Micro-Switch, adjustable range. 2SPDT, 5A@230VAC (3A@28VDC) Micro-Switch, adjustable range.

Switch Accuracy : $\pm 3\%$ FSD
 Switch Setting : Throughout range adjustable externally

Note:

- 1) Measuring units mmWC as standard, others on request
- 2) SS case available in weatherproof only
- 3) Aluminium Case available in weatherproof or flameproof (bottom entry-surface mounting only)
- 4) SPST (electrical contact) offered in weatherproof case only.
- 5) Recommended to use inbuilt Gauge saver in high pressure applications & Syphon, Impulse Tubing, Cooling Tower etc for service temperature above 100°C
- 6) Separately mounted contact assembly suitable to 5A@230VAC offered optionally



B) Pressure Switch-Blind general specifications

Series: GPSB

Srl.	Products	Model
7	Pressure Switch-Blind type (Bellow sensing)	GPSB-B
8	Pressure Switch-Blind type (Diaphragm sensing)	GPSB-D
9	Pressure Switch-Blind type (Piston sensing)	GPSB-P

Case Material : Die cast Aluminium, SS304 (weatherproof)
 Protection : Weatherproof-IP67, IP-68, Flameproof-IIA IIB, Flameproof-IIC
 Cable Entry : 1/2"NPTF, 1/2"BSPF, 3/4"ETF, 3/8"BSPF
 Cable Gland : Double compression type in Brass, SS304, SS316
 Sensor/Wetted Parts : SS316, SS316L, SS316 PTFE lined, SS316L PTFE lined, Titanium, Hastelloy-B, Hastelloy-C, Nickel, Monel, Inconel-600, Inconel-625
 Seal : Teflon
 Connection : **Threaded**
 Size : 1/4", 3/8", 1/2", 3/4", 1", M20x1.5
 Type : NPT, NPS, BSP, BSPT, JIS-PF, JIS-PT, Gas, R, Rp / Male or Female (1/2" NPTM standard, others on request)
Flanged
 Size : 1/2", 3/4", 1", 1 1/2", 2", 3"
 Rating : 150#, 300#, 600#, 900#, 1500#, 2500#
 Type : RF, FF, SORF, SOFF/ RTJ, LT/ LG, ST, SG
 Material : Select from wetted parts material above
 Mounting : Bottom entry-local mounting, Bottom entry-surface mounting, Bottom entry-2" pipe mounting

Micro-Switch : 1 or 2 SPDT 5A@250VAC general purpose
 1 or 2 SPDT 15A@250VAC general purpose
 1 or 2 SPDT 10A@250VAC general purpose
 1 or 2 SPDT 1A@250VAC gold contacts
 1 or 2 SPDT 1A@250VAC gold contacts, hermetically sealed
 1 or 2 SPDT 5A@250VAC silver contacts, hermetically sealed
 1 or 2 SPDT 5A@250VAC environmentally sealed
 1 or 2 SPDT 15A@250VAC low switching differential
 1 or 2 SPDT 10A@250VAC very low switching differential

Switch Setting : Fix type, Adjustable type (Specify set point in either case)
 (Adjustable type between 10% & 90% of full range)

Set Point Lock : Tamperproof

Switching Accuracy : ±0.5% FSR

Scale Accuracy : ±0.3% FSR

Repeatability : ±0.5% FSR

Range : Specify

Over Range Protection : 130% FSD

Service Temperature : Ambient -20 to +70°C & Process -20 to +170°C

Note: Diaphragm (Chemical) Seal & Capillary extension available on request

C) Pressure Gauge with Transmitter general specifications

Model : GPGT

Srl.	Products	Model
1	Pressure Gauge with Transmitter (Dry Case)	GPGT-BD
2	Pressure Gauge with Transmitter (Liquid filled Case)	GPGT-BL
3	Pressure Gauge with Transmitter (Solid Front-Dry Case)	GPGT-BDSF
4	Pressure Gauge with Transmitter (Solid Front-Liquid filled Case)	GPGT-BLSF

Dial Size : 100mm(4"), 150mm(6")

Dial Material : Aluminum dial with black marking on white background.

Window : Safety glass (shatterproof/toughened)

Case Material : SS304, SS316 with bayonet bezel, Die cast Aluminium with screwed Bezel.

Protection : Weatherproof to IP67, IP68 (IS13947 part-I/IEC60529)

Socket : SS316, SS316Ti, SS316L, Monel

Bourdon : SS316, SS316Ti, SS316L, Monel

Movement : SS304, SS316

Range : -1 to 1000 Kg/Cm² (Vacuum -1 to 0, -760 to 0mmHg, Compound -1 to 39 Kg/Cm², Pressure 0 to 1000 Kg/Cm²)

Accuracy : ±1%FSD standard, ±0.5% on request

Micrometer Pointer : Internal for zero adjustment

Blow-out Disc : On top of case, On back of solid front case

Connection : Size : 1/4", 3/8", 1/2", 3/4", 1", M20x1.5
 Type : NPT, NPS, BSP, BSPT, JIS-PF, JIS-PT, G, R, Rp (Male / Female)
 (1/2" NPTM standard, others on request)

Entry & Mounting : Bottom entry-local mounting, Bottom entry-surface mounting, Bottom entry-2" pipe mounting, Back entry-local mounting, Back entry-flush panel mounting

Service Temperature : Ambient -20 to +60°C & Process up to +200°C
 Temperature Effect : Within ±0.4%FSD/10°C when temperature changes from reference 20°C

Transmitter Specifications:

Type : 2-Wire
 Output Signal : 4 to 20mA
 Power Supply : 12V to 24V
 Case Protection : Weatherproof IP-66 as per IEC60529
 Cable Entry : M20x1.5
 Signal Transmission Values : 4 to 20mA, 0 to 20mA, 0 to 10V as per NAMUR

Note:

- 1) Measuring units Kg/Cm², bar, psi as standard, others on request
- 2) Bourdon in SS316Ti recommended to ensures better accuracy & repeatability
- 3) Specify filling liquid type from optional items list for liquid filled gauge.
- 4) SS case available with **or** without Liquid filled (Solid front or normal case)
- 5) Aluminium Case available in Dry case only
- 6) Diaphragm (Chemical) Seal with or without Capillary extension available with Pressure Transmitter
- 7) Recommended to use with Diaphragm Seals, Syphon, Impulse Tubing, Cooling Tower etc for service temperature above 100°C



Note: Specifications other than above offered on request. Refer “optional items list” or “accessories catalogue” for more details, if required

Optional Items:

Srl.	Items	Code
1	Not applicable	N
2	Glycerine filled case	FGL
3	Silicon Oil filled case	FSI
4	Food grade Silicon Oil filled case	FFS
5	Halocarbon filled case	FHA
6	Fluorolube filled case	FFL
7	Syltherm-800 filled case	FSY
8	Mineral Oil filled case	FMI
9	Transformer oil filled case	FTO
10	Pulsation Dampener (Snubber)	PD*
11	Gauge Saver	GS*
12	Syphon (U)	SU*
13	Syphon (Pigtail)	SP*
14	Gauge Adaptor	GA*
15	Gauge Union (Universal Adaptor)	GU*
16	Cooling tower	CTBS, CTBP, CTPP*
17	Impulse Tube	IT*
18	Autoclave Connector/Adaptor (LP, MP, HP & Type M)	AC*
19	Flanged connection	FL*

20	Pointer Puller & Fixer Kit	PPF*
21	Gauge Cock (2-Way)	GC2*
22	Gauge Cock (3-Way)	GC3*
23	Chemical Seal / Diaphragm Seal unit	**
24	Flushing Ring	FR**
25	Capillary	CA**
26	Valve (Ball, Needle, Manifold, Monoflange)	***
27	Pressure comparator	PC
28	IBR certificate	IB
29	CE certificate	CE
30	ATEX certificate	AT
31	NACE compliance	NA
32	Dual scale	DS
33	Color band/zone	CB
34	Dial-SS304	D2
35	Dial-SS316	D3
36	Dial-phenolic/plastic	D4
37	Pointer SS	PS
38	Blow out disk at back of case	BD
39	Vacuum protection	VP
40	Oxygen (O ₂) cleaning	OC
41	Over range protection 150%FSD	OR
42	Maximum pointer	MP
43	External knob for zero reset (SS Case)	EK
44	Welded bezel with SS case	WB
45	Press fit bezel with SS case	PB
46	±0.25% FSD accuracy (master gauge)	A1
47	±0.5% FSD accuracy (test gauge)	A2
48	±1.6% FSD accuracy (standard gauge)	A4
49	Tag plate-SS (wired)	TS
50	Tag plate-Aluminium (wired)	TA
51	Mill Connector	MC*
52	Contact assembly suitable to 5A@230VAC	EC
53	Specify others if any	X
Note	*Refer catalogue page "Accessories" for more details.	
	** Refer catalogue page "Diaphragm Seal" for more details.	
	***Refer catalogue page "Valves" for more details.	
	Refer catalogue page "Fittings" for details, if required.	