Tasira
Instruments & Services

MASS

Stainless steel process gauges
Model ZPS

Nominal size: 100 mm (4"), 115 mm (4.5"), 150 mm (6")
ASME B40.100 / EN 837-1 / IS-3624
Accuracy: Class 1 (1%)

Features

- Rugged stainless steel construction
- Socket and case welded
- Protection IP65, IP66 and IP67
- Usable to full scale
- Overload protection 130 %
- Dry, liquid filled
- Optional contacts
- Optional external Zero Adjustment

Ranges

-30 in. Hg ... 0 psi up to 0 ... 15,000 psi
-1 ... 0 bar up to 0 ... 1000 bar & kg/cm²
-100 ... 0 kPa up to 0 ... 100,000 kPa

Applications

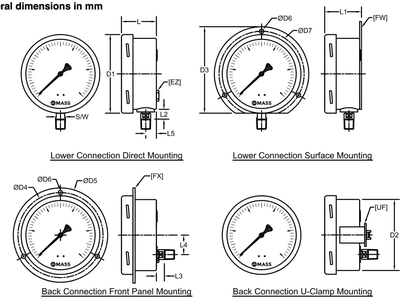
Chemical & petrochemical industries, refineries
Fertilizer, thermal & nuclear power plants
OEM & machine apparatus

Technical specification	ZPS		
Dial size in mm	100	115	150
Construction	Open front cylindrical case with snap action bayonet ring with blow out disc		
Measuring principle	Bourdon tube		
Range in kg/cm² (or bar)	0.6 1 1.6 2.5 4 6 10 16 25 40 60 100 160 250 400 600 1000 -1/0 -1/0.6 -1/1.5 -1/3 -1/5 -1/9 -1/15 -1/24		
Overpressure limit	130 % F.S., short time.		
Pressure type	Gauge, vacuum and compound		
Process connection	1/8" 1/4" 3/8" 1/2" BSP / NPT (M) , M20x1.5 (M) Others on request		
Connection location	Lower, back		
Material			
Pressure connection	Stainless steel 316, optional 316L		
Tube	Stainless steel 316, optional 316L		
Case/bayonet ring	Stainless steel 304 , optional 316L		
Window	Toughened glass, optional Safety Glass, acrylic glass		
Dial	Aluminum, black markings on white background, others on request		
Pointer	Aluminum, black optional micrometer adjustment		
Movement	Stainless steel		
Accuracy	Class 1 (1 % F.S.)		
Permissible			
Ambient temperature	-40 ... 60 °C (-40 ... 140 °F)		
Medium temperature	Max. 200 °C (392 °F) (dry), max. 100 °C (212 °F) (for liquid filled)		
Storage temperature	-40 ... 65 °C (-40 ... 150 °F)		
Effect	Max. 0,3 % / 10 K		
Protection according	IP65 / IP66 / IP67		
Filling liquids	Glycerin		
Mounting	Standard stem, optional panel, bracket, surface or others on request		
Weight dry/filled in kg	0.51 / 0.86	0.64/0.99	0.88 / 1.78
Accessories, options	NACE, diaphragm seals, valves, dampener, gauge saver, syphon etc		

All specifications are subject to change without notice.
IN.ZPS Rev. H 01/06/2020

MASS

General dimensions in mm



Lower Connection Direct Mounting
Lower Connection Surface Mounting
Back Connection Front Panel Mounting
Back Connection U-Clamp Mounting

DIAL SIZE	100	115	150
ØD1	109	127	166
ØD2	98.5	114.5	152
Ø3	122	140	176
Ø4	118	136	178
D5	132	152	192
D6	6	6	6
D7	118	136	168
L	49	49	49
L1	51.5	51.5	51.5
L2	16	16	16
L3	16	16	16
L4	27	27	27
L5	14.8	14.8	15.5
SW	17	17	17

Order information

Size	Type	System material	Execution	Process Connection	Connection orientation	Range	Engineering units	Filling/case material	Options
(100) 100 mm **(115)** 115mm **(150)** 150mm	**ZPS**	**(S)** Socket 316, Tube 316 **(L)** Socket and Tube 316L **(P)** Socket and Tube Monel	**(L)** IP65 **(R)** IP66 **(N)** IP67	**(04)**1/2" NPT (M) **(03)**3/8" NPT (M) **(02)**1/4" NPT (M) **(01)**1/8" NPT (M) **(15)**1/2" BSP (M) **(14)**3/8" BSP(M) **(13)**1/4" BSP(M) **(12)**1/8" BSP(M) **(16)**M20x1.5(M) **(KQ)**1/2" BSPT (M) **(KR)**3/8" BSPT (M) **(KA)**1/4" BSPT (M)	**(L)** Lower **(B)** Back	-1/ 0 -1/ 0.6 -1/ 1.5 -1/ 3 -1/ 5 -1/ 9 -1/ 15 -1/ 24 0/ 0.6 0/ 1 0/ 1.6 0/ 2.5 0/ 4 0/ 6 0/ 10 0/ 16 0/ 25 0/ 40 0/ 60 0/ 100 0/ 160 0/ 250 0/ 400 0/ 600 0/ 1000	**kg/cm2** **(bar)** Equivalent ranges in kPa, MPa, psi,bar and others units available	**(=)** Standard no filling **(GV)** Silicone[2)] **(GR)** Glycerin[2)] **(GX)** Halocarbon[2)] **(YW)** Case material 316L (1.4404)	**(NH)** Tagging wired **(DA)** Dial Marking **(CS)** Dual Scale **(OF)** Oil free **(MP)** Micrometer pointer **(PD)** Acrylic glass **(SG)** Safety Glass **(FX)** Front panel **(FW)** Surface plate **(UF)** U-clamp **(TU)** Throttle screw **(TM)** 2" Pipe mounting **(AJ)** Calibration 0.5 % F.S.[3)] **(EZ)** External Zero adjustment

1) Specify details 2) Not for 0.6 kg/cm2 3) only for size 150mm

How to order

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Filling/Case material	Option
100	ZPS	S	L	04	L	0/16	KG/CM2	=	NH

Tasira
Instruments & Services

CONTACT DETAIL

tasira@rediffmail.com
2522 8205, 2523 1145
#293, (Old 142)
Linghi Chetty Street,
Chennai-600 001
www.tasirainstrumentations.com