

APPLICATIONS

- Marine applications
- Textile machineries
- Power & steel plants
- Furnace applications
- Oil & Gas, Refineries
- Petro-chemicals & Fertilizers
- Cement & Glass industries
- Railway engines & Turbines

FEATURES

- Fix / adjustable differential
- Field adjustable set point
- Weatherproof to IP 68
- Internal set point lock
- Rigid construction
- Scale provided

DESCRIPTION

General

Design : BS 6134

Sensing element : Piston

Repeatability : ± 0.5 % Full Scale

Scale accuracy : ± 1 % Full Scale

Mounting : Bottom / Panel

Enclosure / equipment rating : IP 67

Maximum process temperature : 150 °C

Ambient temperature : -10...60 °C

Set point : Between 20 to 80 % F.S for better performance

High voltage strength : 0.5 to 0.6 KV between open contacts
and 2 KV between contact and body

Material of construction

Enclosure : Die-cast aluminum

Top chamber : ASTM A105 - Ni plated, AISI 304 SS

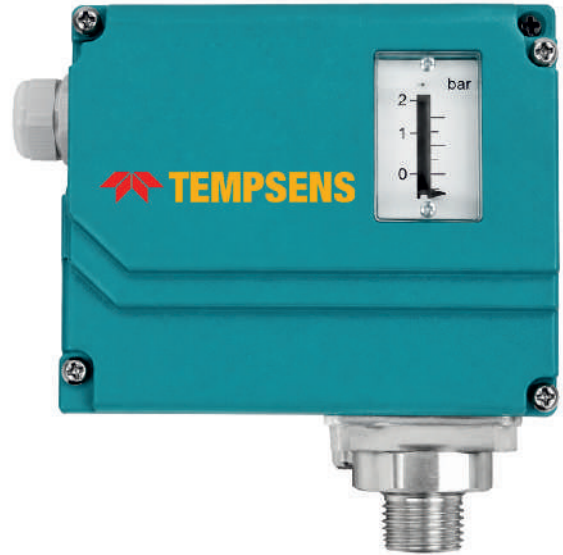
Sensing element : AIS 316 SS / Monel / Hastelloy - C276

Bottom chamber : AISI 316 SS / AISI 316L SS / Monel / Hastelloy C-276

Wall mounting bracket : ASTM A105 / AISI 304 SS

2" pipe / Yoke mounting bracket : ASTM A105 / AISI 304 SS

Tag plate : AISI 304 SS



WEATHERPROOF PRECISION PRESSURE SWITCH -PISTON , TMC44-2

Standard Version

Range : As per the selection table

Set point adjustment : External (Field adjustable)

Differential : Fixed (Standard - 2...5%),
Adjustable (For code N11B - 5...12.5%)

For double contacts, Differential shall be 1.5 times

Switch : 1 SPDT Snap action micro switch

Switch rating : 15A,250 VAC / 2A,24 VDC (Standard)

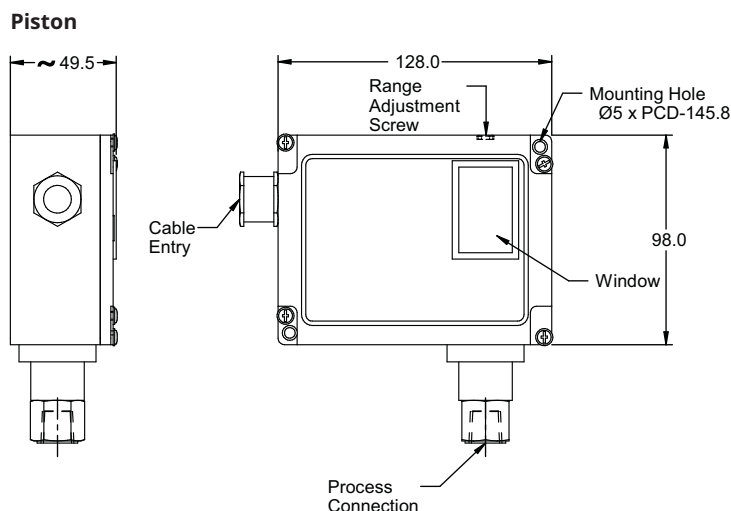
Process connection : 1/4" BSP (F) / 1/4" NPT (F)

Cable entry : PG 13.5, single compression

Range Table

CODE	RANGE
250	25...250
400	40...400

DIMENSIONAL DRAWING



NOTES
1. Drawing not to scale. All dimensions are in mm.

ORDERING CODES

MODEL						TMC44-2
TMC44-2 Weatherproof Pressure Switch, Piston						
RANGE						110
XXX	As per range table					
DIAPHRAGM						S02
S02	AISI 316 SS	S05	MONEL 400	S10	Hastelloy C-276	
BOTTOM CHAMBER						S02
S02	AISI 316 SS	S03	AISI 316L SS	S05	MONEL 400	
S10	Hastelloy C-276					
SET-POINT ADJUSTMENT						E64
E63	Internal	E64	External			
CALIBRATION						E80
E70	Falling pressure	E80	Rising pressure			
MICROSWITCH TYPE						N11A
N11A	Low Deadband Contact (15A/250VAC, 2A/24VDC)		N11E	Hermetically Sealed Silver Contact (2A/24VDC)		
N11B	Adjustable Deadband Contact (15A/250VAC, 5A/24VDC)		N11F	Hermetically Sealed Gold Contact (1A/125VAC)		
N11C	Gold Plated Contact (1A/250VAC, 0.5A/28VDC)		N12A	DPDT Contact (10A/125VAC)		
N11D	Environmentally Sealed Silver Contact (5A/28VAC)					
NO. OF SWITCHES						1
1	One	2	Two [Except for code N12A]			
CABLE ENTRY						Q1
Q1	PG 13.5	Q2	½" NPT (F)	Q3	½" BSP (F)	
Q4	DIN Connector	Q5	¾" ET (F)			
PROCESS CONNECTION						P24
P23	¼" BSP (F)	P3	¼" BSP (M)	P5	3/8" BSP (M)	
P7	½" BSP (M)	P24	¼" NPT (F)	P4	¼" NPT (M)	
P8	½" NPT (M)	P28	½" NPT (F)	A25	1.5" RF 150#	
A26	1.5" RF 300#	A27	1.5" RF 600#	A31	2" RF 150#	
A32	2" RF 300#	A33	2" RF 600#			
OTHER OPTIONS						E16/E27
E16	Calibration Certificate	E27	AISI 304 SS tag plate	E65	Wall mounting bracket	
E66	2" Pipe mounting bracket & clamp			E17	Material test certificate 3.1	
Q54	Ni-plated brass double compression cable gland					

Ordering Example : TMC44-2.110.S02.S02.E64.E80.N11A.1.Q1.P24/E16/E27



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