

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 : Diaphragm

Repeatability : ± 0.5 % Full Scale

Scale accuracy : ± 1 % Full Scale

Mounting : Bottom / Panel

Enclosure / equipment rating : IP 68

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

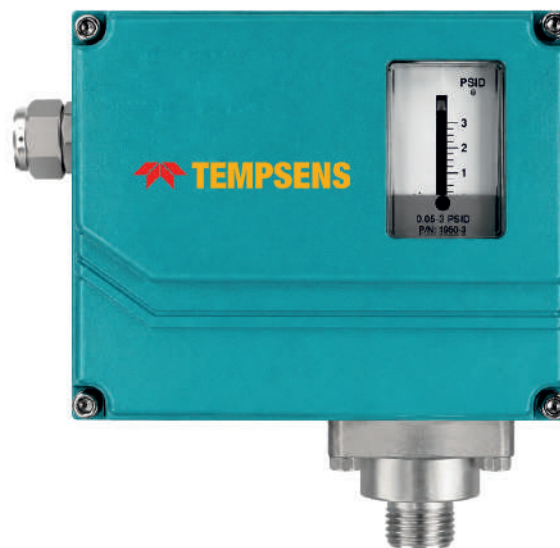
Sensing element : AIS 316 SS / Monel / Hastelloy - C276

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-DIAPHRAGM, TMC44-1

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)

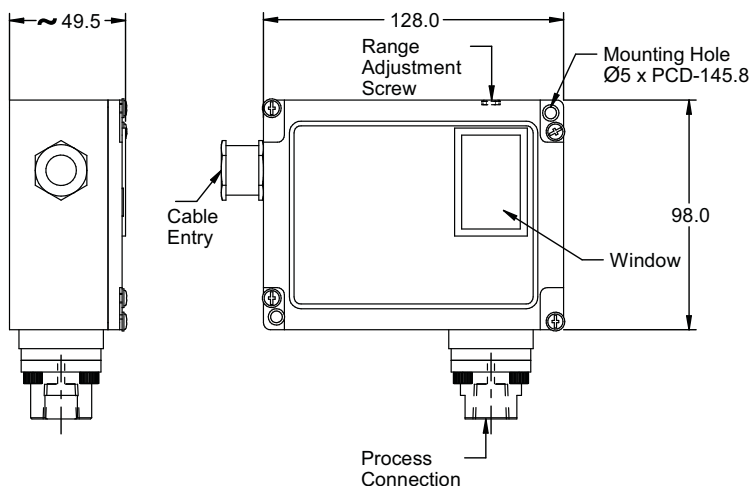
Cable entry : PG 13.5, single compression

Range Table

CODE	RANGE	CODE	RANGE
	"mbar"		"bar"
200	-20...+20	001	-1...0
400	-40...+40	102	-1...+2
320	3...20	104	-1...+4
560	5...60	202	0.2...2
101	10...100	404	0.4...4
252	25...250	606	0.6...6
506	50...600	110	1...10
		116	1...16
		225	2...25
		232	2...32
		440	4...40
		565	5...60

DIMENSIONAL DRAWING

Diaphragm



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

ORDERING CODES

MODEL

TMC44-1 Weatherproof Pressure Switch, Diaphragm

RANGE

XXXAs per range table

DIAPHRAGM

S02AISI 316 SS

S05MONEL 400

S10Hastelloy C-276

BOTTOM CHAMBER

S02AISI 316 SS

S10Hastelloy C-276

S03AISI 316L SS

S05MONEL 400

SET-POINT ADJUSTMENT

E63Internal

E64External

CALIBRATION

E70Falling pressure

E80Rising pressure

MICROSWITCH TYPE

N11ALow Deadband Contact (15A/250VAC, 2A/24VDC)

N11BAdjustable Deadband Contact (15A/250VAC, 5A/24VDC)

N11CGold Plated Contact (1A/250VAC, 0.5A/28VDC)

N11DEnvironmentally Sealed Silver Contact (5A/28VAC)

N11EHermetically Sealed Silver Contact (2A/24VDC)

N11FHermetically Sealed Gold Contact (1A/125VAC)

N12ADPDT Contact (10A/125VAC)

NO. OF SWITCHES

1One

2Two [Except for code N12A]

CABLE ENTRY

Q1PG 13.5

Q4DIN Connector

Q2½" NPT (F)

Q5¾" ET (F)

Q3½" BSP (F)

PROCESS CONNECTION

P23¼" BSP (F)

P7½" BSP (M)

P8½" NPT (M)

A261.5" RF 300#

A322" RF 300#

P3¼" BSP (M)

P24¼" NPT (F)

P28½" NPT (F)

A271.5" RF 600#

A332" RF 600#

P53/8" BSP (M)

P4¼" NPT (M)

A251.5" RF 150#

A312" RF 150#

OTHER OPTIONS

E16Calibration Certificate

E662" Pipe mounting bracket & clamp

Q54Ni-plated brass double compression cable gland

E27AISI 304 SS tag plate

E65Wall mounting bracket

E17Material test certificate 3.1

TMC44-1

110

S02

S02

E64

E80

N11A

1

Q1

P24

E16/E27

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Ordering Example : TMC44-1.110.S02.S02.E64.E80.N11A.1.Q1.P24/E16/E27



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