



SPECIAL FEATURES

- CE & ATEX APPROVED ELECTRICAL CONTACTS
- LASER WELDED DIAPHRAGM
- FILLED VERSION FACILITATE USAGE IN VIBRATION ZONES TO AVOID DAMAGES TO ITS MECHANISM.
- SUITABLE FOR HOMOGENIZER MACHINES.
- ELECTRICAL CONTACT OPTIONS AVAILABLE.
- STANDARD FOLLOWED IN GENERAL EN 837-3.

APPLICATIONS

THESE GAUGES ARE BEING USED IN APPLICATIONS WHERE HYGIENE IS OF PRIME IMPORTANCE LIKE DAIRY, FOOD, ICE CREAM, BEVERAGES, PHARMACEUTICAL INDUSTRIES & STERILIZATION.



SPECIFICATIONS

STANDARD VERSION : 100 mm

Accuracy	: ±1.6% of F. S.
Ambient temperature	: - 25°C to + 65°C
Process temperature	: Max. 120°C
Operating pressure range	: 75% of Scale Value

Case & Bezel	: AISI 304 SS (Bayonet Type)
Bourdon	: AISI 316L SS
Socket	: AISI 316L SS
Movement	: AISI 304 SS
Diaphragm	: AISI 316L SS
Body	: AISI 316 SS
Joints	: Tig Argon Arc Welding

Protection	: IP 65
Dial	: Aluminum, black graduation on white background
Pointer	: Aluminum, black coloured micrometer zero adjustable
Window	: Plexi Glass
Blow off Disc	: Neoprene
Gasket & Filling plug	: Neoprene
Sealing liquid	: Glycerin
Dampening Liquid	: Glycerin 99.7%

ELECTRICAL CONTACTS - DRY VERSION

Accuracy	: ±2.5% of F. S.
Ambient Temperature	: Maximum 65°C
Process Temperature	: Maximum 65° C
Window	: Polycarbonate Dome
Dampening Liquids	: Dielectric Oil (Optional)
Electric Contacts*	: Refer How to Order
Other Features	: Refer Specification of Standard Version

* Please specify contact set points while ordering.

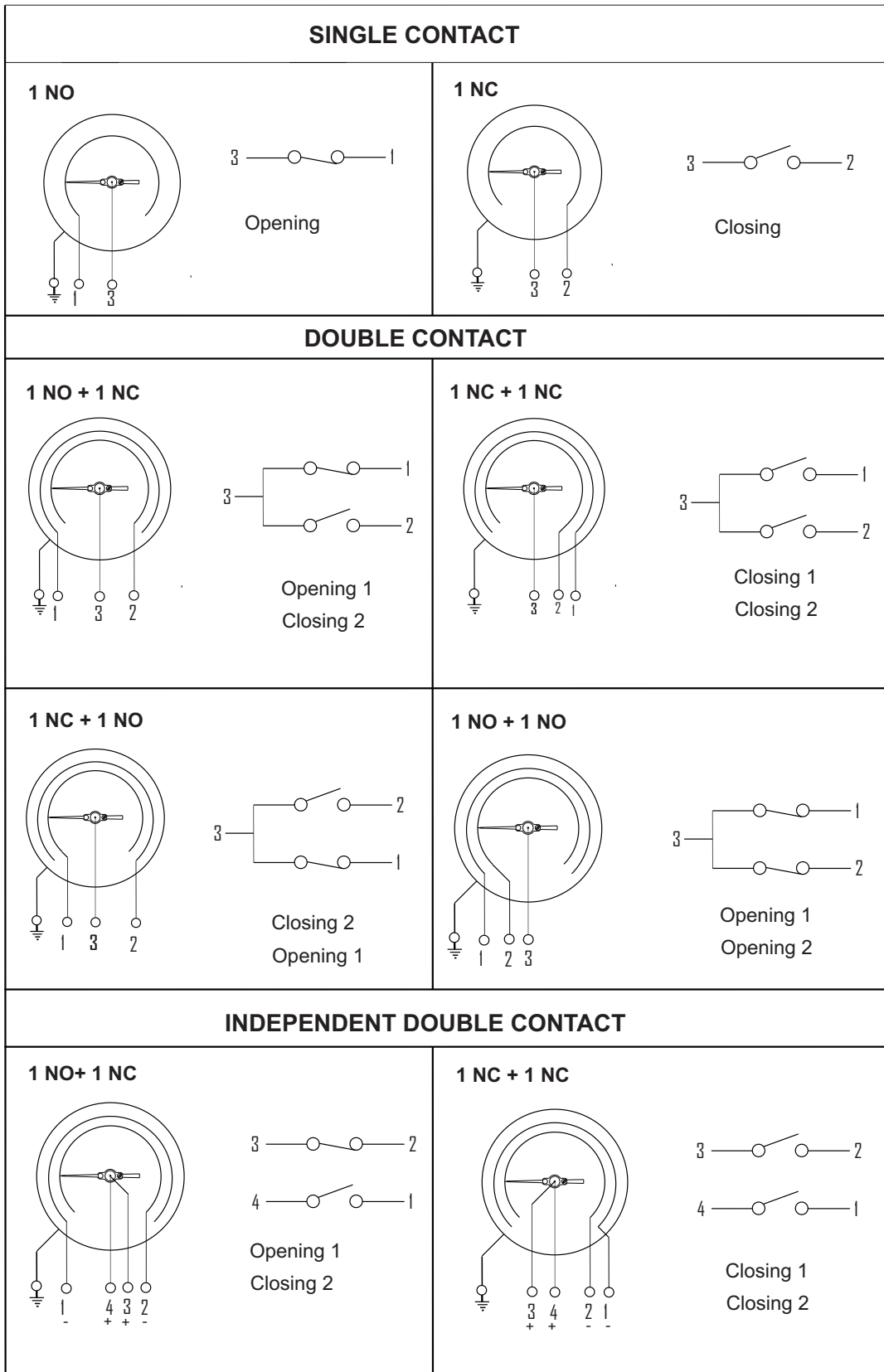
Temperature effect:

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :-

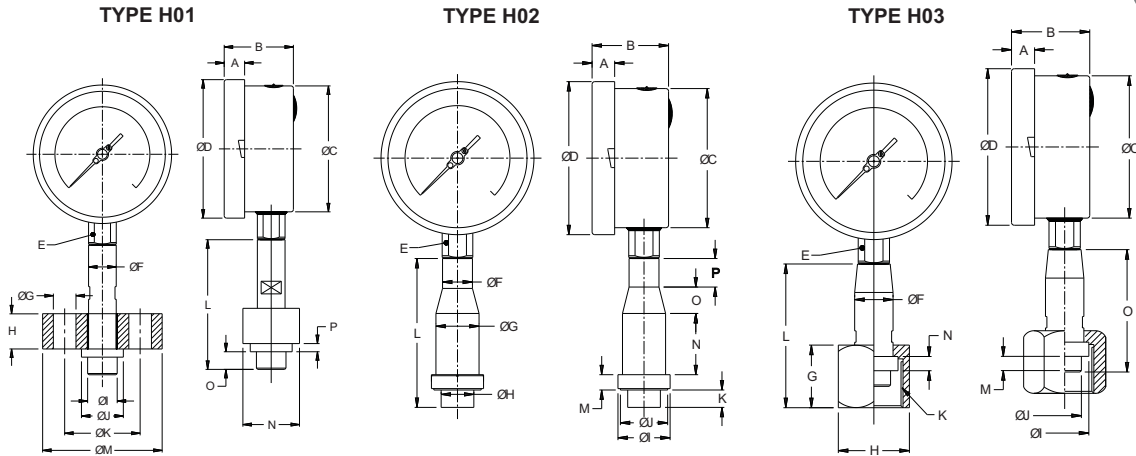
Formula : $\pm 0.08 \times (t_2 - t_1) \% \text{ of F. S.}$

where t_1 = reference temperature (+20°C) and t_2 = ambient temperature in °C.

WIRING DIAGRAMS FOR ELECTRIC CONTACTS



DIMENSIONS - STANDARD VERSION



FLANGE CONNECTION

NS	A	B	ØC	ØD	E	ØF	ØG	H	ØI	ØJ	ØK	L	ØM	N	O	P	Weight in gram (With Box)
100	12.5	47	100	111	22	22	18	28	24	35	60	90	95	45	13	6.5	1600.0

WITHOUT FLANGE CONNECTION

NS	A	B	ØC	ØD	E	ØF	ØG	ØH	ØI	ØJ	ØK	L	M	N	O	P	Weight in gram (With Box)
100	12.5	47	100	111	22	21	31	26	37.5	34	10	89.5	10.3	34	24.2	8	1200.0

11/4" BSP(F) CONNECTION

NS	A	B	ØC	ØD	E	ØF	G	H	ØI	ØJ	K	L	M	N	O	Weight in gram (With Box)
100	12.5	47	100	111	22	27	44	A/F 50	34	23.5	1 1/4" BSP(F)	101	10	10	85	1300.0

Notes : • Drawings are not to scale. • All Dimensions are in mm. • NS = Nominal Size

HOW TO ORDER

BASIC MODEL

CODE

Example

AZ

NOMINAL SIZE

F

X

100 mm

TYPE OF MOUNTING

2 DIRECT BOTTOM ENTRY

X

GAUGE CONNECTION

H01 FLANGE H02 WITH OUT FLANGE (Standard) H03 1 1/4" BSP (F)

XXX

RANGE (in kg/cm² or bar) *Consult factory for price & delivery.

0/160* 0/250* 0/400 (Standard) 0/600* 0/1000* 0/1600*

0/250

FILLING FLUIDS

UF GLYCERIN [10 to 150 °C / 50 to 302 °F] (Standard) UV FOOD GRADE OIL [-20 to 140 °C / -4 to 284 °F]

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OPTIONAL EXTRAS

PW FIVE POINT CALIBRATION CERTIFICATE

TB HELIUM LEAK TEST

SX SS TAG PLATE

RH CUSTOM DESIGNED DIAL

SJ MAXIMUM READING POINTER WITH PLEXI GLASS (FOR DRY VERSION)

GH MATERIAL TEST CERTIFICATES*

ZZ DIELECTRIC OIL FILLED**

*MATERIAL TEST CERTIFICATES WILL BE PROVIDED FOR WETTED PARTS ONLY WITH CHEMICAL COMPOSITION TESTING. FOR OTHERS, PLEASE CONSULT FACTORY.

**BOD, Gasket & Filling plug of NBR. Refer Price List for Viton.

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ELECTRIC CONTACTS (CE & ATEX APPROVED)

(FOR DRY VERSION, WITH INGRESS PROTECTION UP TO IP 55 & POLY CARBONATE DOME AS A WINDOW.)

A) SINGLE INSULATED MAGNETIC SNAP ACTION TYPE* (230 V AC, 1 Amp.)(48 V DC, 0.5 Amp.)

B) INDUCTIVE TYPE (220 V AC, 0.4 Amp.)

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- RJ Single; NORMALLY CLOSED (1 NC)
- RK Double; NORMALLY CLOSED + NORMALLY OPEN (1 NC + 1 NO)
- RL Single; NORMALLY OPEN (1 NO)
- RM Double; NORMALLY OPEN + NORMALLY CLOSED (1 NO + 1 NC)
- RN Double; NORMALLY CLOSED (BOTH NC)
- RO Double; NORMALLY OPEN (BOTH NO)
- RU BOOSTER WITH RELAY FOR CURRENT UPTO 5 Amp.
- RA SPDT
- RC DPDT

- YW Single; NORMALLY OPEN (1 NO)
- YV Single; NORMALLY CLOSED (1 NC)
- YX Double; NORMALLY CLOSED + NORMALLY OPEN (1 NC + 1 NO)
- YY Double; NORMALLY OPEN (BOTH NO)
- YZ Double; NORMALLY CLOSED (BOTH NC)
- ZA Double; NORMALLY OPEN + NORMALLY CLOSED (1 NO + 1 NC)

* FOR DOUBLE INSULATED ELECTRICAL CONTACTS, CONSULT FACTORY FOR PRICE & DELIVERY.

Ordering Example: AZ - X - X - XXX - 0-250 - XX - XX - XX

FOR OTHER OPTIONAL ITEMS, PLEASE CONTACT FACTORY FOR DELIVERY AND MINIMUM QUANTITY OF ORDER.

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.