# HOMOGENIZER PRESSURE GAUGE

## **BOURDON TYPE**

#### **SPECIAL FEATURES**

- C € & ATEX APPROVED ELECTRICAL CONTACTS
- LASER WELDED DIAPHRAGM
- FACILITATE USAGE IN FILLED VERSION 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

: ±1.6% of F. S.	
: - 25°C to + 65°C	
: Max. 120°C	
: 75% of Scale Value	
	: - 25°C to + 65°C



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

<sup>\*</sup> 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: ± 0.08 x (t2 - t1) % of F. S.

where t<sub>1</sub> = reference temperature (+20°C) and t<sub>2</sub> = ambient temperature in °C.



IPS-PG-12





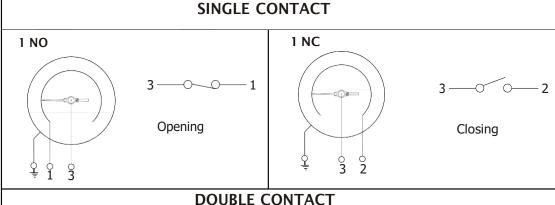


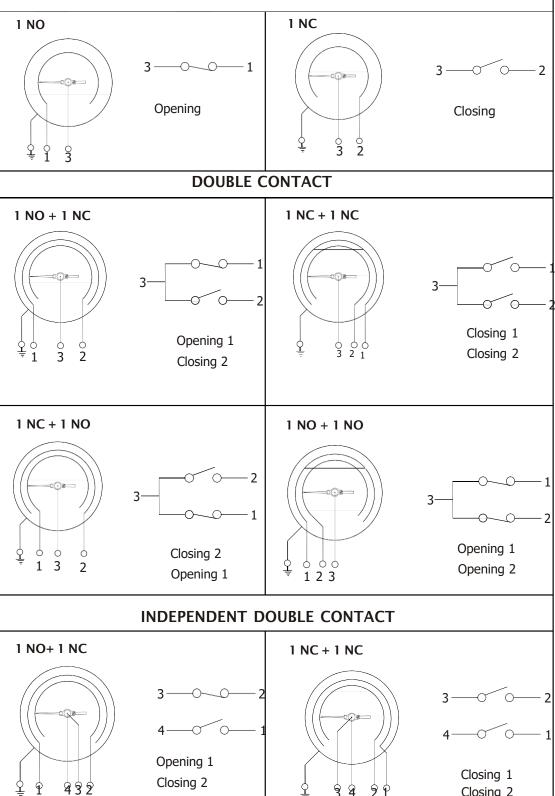
# **HOMOGENIZER PRESSURE GAUGE**

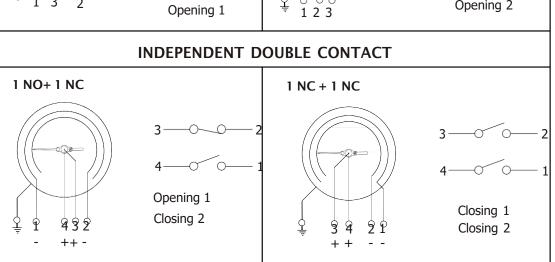
# WIRING DIAGRAMS FOR ELECTRIC CONTACTS



IPS-PG-12



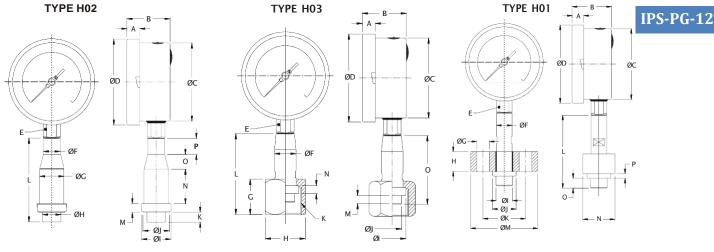






# **HOMOGENIZER PRESSURE GAUGE**

# **DIMENSIONS - STANDARD VERSION**



11/4" BSP(F) CONNECTION

NS	Α	В	ØС	ØD		ØF	G		Ø١	ØJ	K		М	N	0	Weight in gram (With Box)
100	12.5	47	100	111	22	27	44	A/F 50	34	23.5	11/4"BSP(F)	101	10	10	85	1300.0

#### WITHOUT FLANGE CONNECTION

**HOW TO ORDER** 

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 									Weigh

NS	Α		øс	ØD		ØF	øG	ØН		ØJ	K				o		Weight in gram (With Box)
100	12.5	47	100	111	22	21	31	26	37.5	34	0	89.5 1	0.3	34	24.2	8	1200.0

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

BASIC MODEL	IPS-PS-12
CODE	
NOMINAL SIZE F	
100 mm	X
TYPE OF MOUNTING	
2 DIRECT BOTTO MENTRY	X
GAUGE CONNECTION	
H01 FLANGE H02 WITH OUT FLANGE (Standard) H03 1¼" 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
0/160* 0/250* 0/400( Standard) 0/600* 0/1000* 0/1600* FILLING FLUIDS	0-250
UF GLYCERIN [10 to 150 °C / 50 to 302 °F] (Standard) UV FOOD GRADE OIL [-20 to 140 °C / -4 to 284 °F]	XX
OPTIONAL EXTRAS	
PW FIVE POINT CALIBRATION CERTIFICATE TB HELIUM LEAK TEST	
SX SS TAG PLATE RH CUSTOM DESIGNED DIAL	XX
SJ MAXIMUM READING POINTER WITH PLEXI GLASS (FOR DRY VERSION)  GH MATERIAL TEST CERTIFICATES*  ZZ DIFFECTRIC OIL FILLED**	
(FOR DRY VERSION)  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.	
ELECTRIC CONTACTS (C & 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*  B) INDUCTIVE TYPE (220 V AC, 0.4 Amp.)	2020
(230 V AC, 1 Amp.)(48 V DC, 0.5 Amp.)  RJ Single; NORMALLY CLOSED (1 NC)  YW Single; NORMALLY OPEN (1 NO)	XX
RK Double: NORMALLY CLOSED + NORMALLY OPEN (1 NC +1 NO) YV Single; NORMALLY CLOSED (1 NC)	
RL Single; NORMALLY OPEN (1 NO)  YX Double; NORMALLY CLOSED + NORMALLY OPEN	
RM Double; NORMALLY OPEN + NORMALLY CLOSED (1 NO + 1 NC)  (1 NC +1 NO)  YY Double; NORMALLY OPEN (BOTH NO)  YY Double; NORMALLY OPEN (BOTH NO)	
RO Double; NORMALLY OPEN (BOTH NO)  YZ Double; NORMALLY CLOSED (BOTH NC)	
RIL ROOSTER WITH RELAY FOR CURRENT LIPTO 5 Amp. ZA Double; NORMALLY OPEN + NORMALLY CLOSED	
RA SPDT (1 NO + 1 NC)	



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



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