



Description

Electric Contact Pressure Gauges have been developed for different industrial applications where the indication of the system pressure is required and the circuits in process control systems need to be switched in the meantime. Electric Contact Pressure Gauges are mostly used for the pressure measurement of fluids that do not attack Copper Alloys. In corrosive environments, the versions made of AISI 316L are recommended to be used

Based on the location of the pressure gauge's pointer, the electrical contact switches on or off the control circuits of the system. The electrical contacts, which are adjustable all over the scale range, are mounted on the dial. The limit pointers of the electrical contacts can be adjusted by the adjustment key on the window. As electrical switch contacts, magnetic snap-action contacts and inductive contacts are being used. While snap-action contacts are available for many industrial applications, the inductive ones are suitable for flammable and hazardous environments.

Industrial Applications

Process control, petrochemical plants, mining industry, machine building, pumps/compressors, hydraulic/pneumatic systems, water and waste water treatment systems, HVAC systems, etc.

General Specifications

Conformity:

EN 837-1

Gauge Sizes (mm):

Ø100, Ø160

Measurement Ranges:

0,6 bar ...1000 bar

Accuracy Class:

Cl.1,0

Working Pressure:

75% of Full Scale

Overpressure Resistance:

1,25x Full Scale (Up to 100bar)

1,15x Full Scale (From 100bar to 600bar)

1,1x Full Scale (Over 600bar)

Ingress Protection Rate:

IP65

Versions:

Standard, Fillable, Silicone Oil Filled

Working Temperature Range:

Ambient: -20°C...60°C

Process: 60°C, 120°C (Silver Brazed), 200°C (AISI 316L)

Process Connections:

G1/2"

Recommended Working Conditions:

Voltage		Ohmic Load		Inductive Load
DC (V)	AC (V)	DC (mA)	AC (mA)	AC (cosφ>0.7 mA)
220	220	100	120	65
110	110	200	240	130
48	48	300	450	200
24	24	400	600	250

Materials:

Bourdon Tube:

Copper Alloy, AISI 316L

Socket:

Brass, AISI 316

Case:

AISI 304, AISI 316L

Cover:

AISI 304, AISI 316L

Movement:

Brass, Stainless Steel

Window:

Polycarbonate

Dial:

Aluminium

Pointer:

Aluminium

Options:

Other Process Connections

Other Pressure Units

Special Dial Design

Dampened Movement (Vib-Lock)

Silver Brazed

Flanged Type

Electrical Contact Types:

NO - NC - NONO - NCNO - NONC - NCNC

Features of Electrical Contact:

Minimum Voltage: 24V

Maximum Voltage: 250V

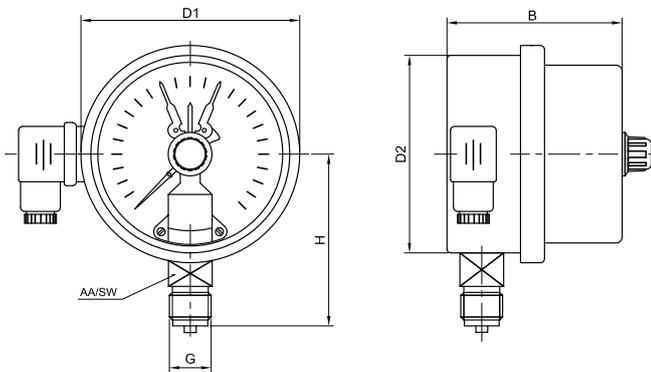
Minimum Power Capacity:0.4W~0.4VA

Maximum Power Capacity: 30W~50VA

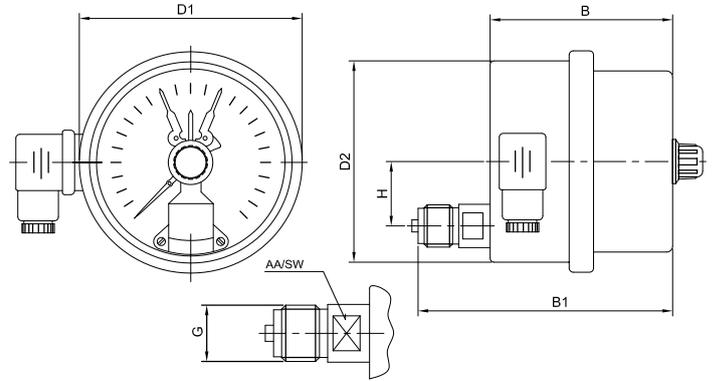
Maximum Current: 1A (Switch on-Switch off),
0.6A (Continuous)

Dimensions (mm)

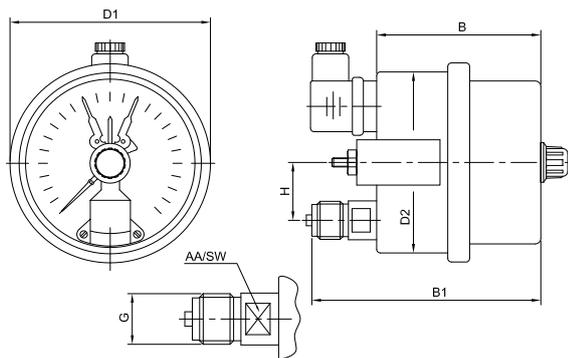
01-Bottom Connection



02-Lower Back Connection



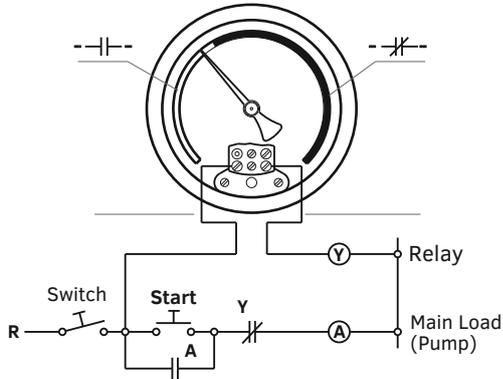
03-Lower Back Panel Mount



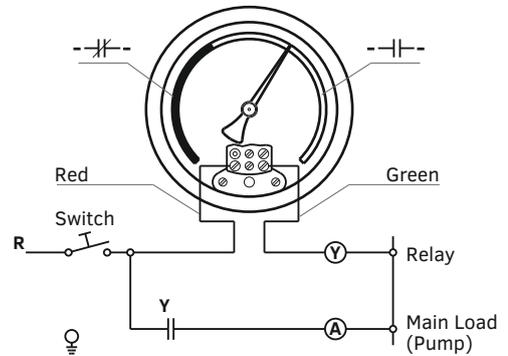
Ø	Connections	Version	Case	Window	Cover	D1	D2	B	B1	H	G	SW
Ø100	Bottom	Standard	Metal	Polycarbonate	Metal	110	100	88	-	87	G1/2"	17
	Lower Back	Standard	Metal	Polycarbonate	Metal	110	100	90	125	32	G1/2"	17
	Lower Back Panel Mount	Standard	Metal	Polycarbonate	Metal	110	100	90	125	32	G1/2"	17
Ø160	Bottom	Standard	Metal	Polycarbonate	Metal	174	160	89	-	89	G1/2"	17
	Lower Back	Standard	Metal	Polycarbonate	Metal	174	160	91	126	91	G1/2"	17
	Lower Back Panel Mount	Standard	Metal	Polycarbonate	Metal	174	160	91	126	91	G1/2"	17

Electrical Circuit Schemes:

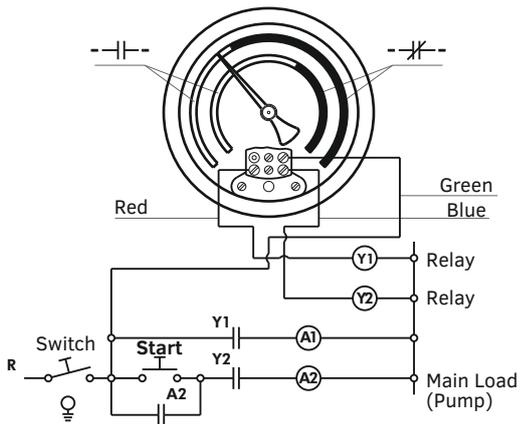
NO



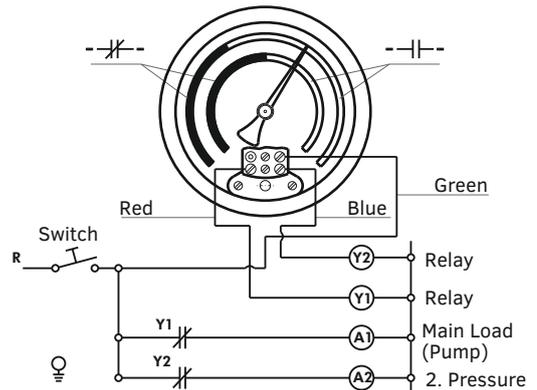
NC



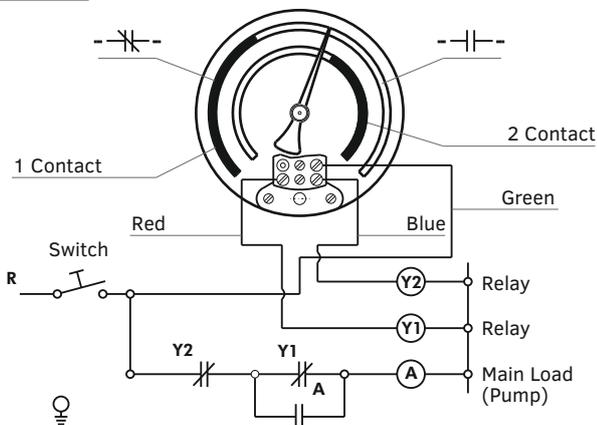
NONO



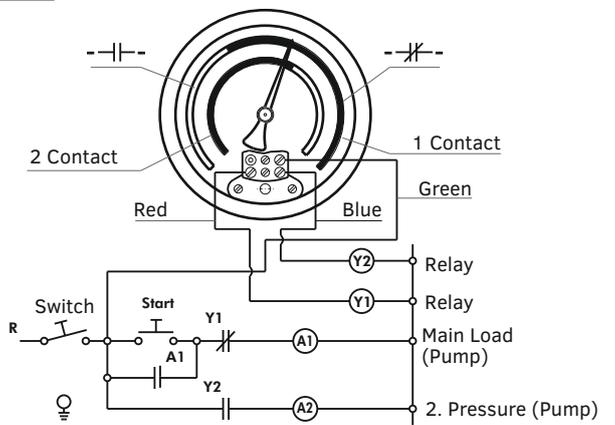
NCNC



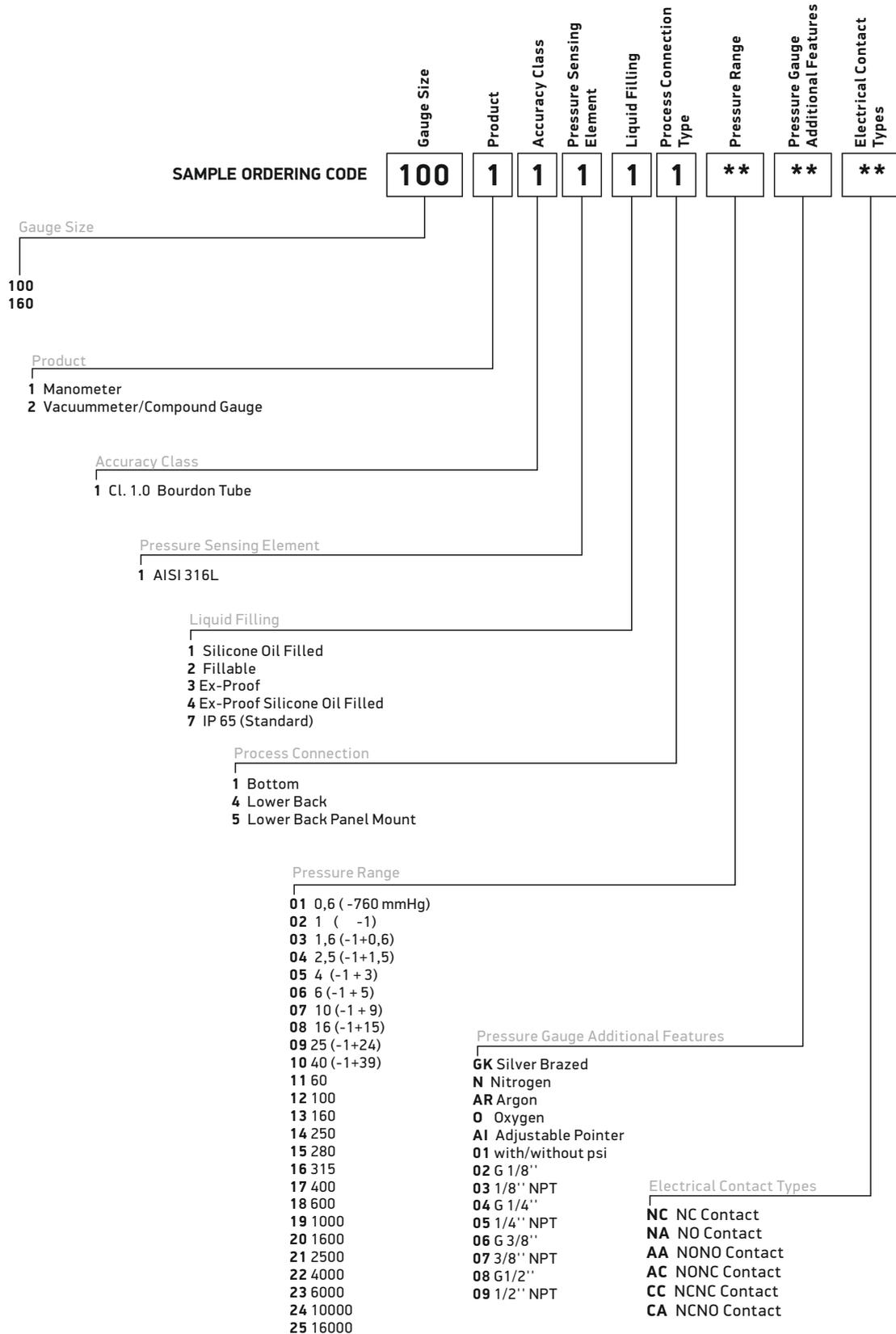
NCNO



NONC



How To Order?



Approvals:



Turkish Standards Institution



ISO 9001 Quality Management System



TURKAK Calibration Laboratory Accreditation Certificate



2014/68/EU Pressure Equipment Directive - Certificate of Conformity



211/65/EU Restriction of Hazardous Substances Directive - Declaration of Conformity



Gost Certificate



2104/34/EU Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres - Certificate of Conformity

*System and quality certifications of PAKKENS Inc.
Product and product group certifications may vary*