

INDUCTIC CONTACT GAUGES KI 50 - NPT 1/4"

Contact gauge with inductive contact (KI), for visual and acoustic warning of low gas supply pressure and to monitor the cylinder pressures; for inert, combustible, oxidizing and corrosive gases and gas mixtures, nominal pressure maximum 300 bar



TECHNICAL SPECIFICATIONS

- > Construction conforms to safety regulations EN 837-01
- > Switching point is freely adjustable in marked area (45°)
- > Pressure display at location and signal transmission for recording measured data
- > Ex-protection is possible in conjunction with corresponding signal box

DESCRIPTION

These pressure measuring instruments have a robust chrome nickel steel/cooper-zinc-alloy housing in accordance with DIN 16063. When the gas cylinder is empty and by sinking cylinder pressure an inductive contact switch is activated. The switch point, i.e. the pressure level at which the signal should be triggered is freely adjustable within a sector of 45° (at 315 bar type e.g. 38 bar).

To set the switch point the pressure level marking is simply adjusted to the desired switch point.

APPLICATION

Panel and manifolds can be fitted out with contact gauges as an optional. Contact gauges combine the advantages of a local display with the demand for an electric signal transmission. This allows for - in conjunction with special signal boxes - the optical and acoustic warning signal by low gas supply pressure or the monitoring of the line pressure with freely adjustable threshold.

NOTICE ABOUT ELECTRICAL CONNECTIONS

An inductive contact gauge does not generate a potential-free signal. Special signal boxes (type DGM-SK02/04/06/10) are required to control the inductive contact gauges. For the use of the signal transmitter in EX- Zone 1 the use of an additional isolating amplifier is necessary.

TECHNICAL DATA	
Measuring element:	Bourbon tube
Diameter:	50 mm
Design:	Safety version in accordance with ISO 837-1
Housing:	CrNi-steel
Measuring element:	CrNi-steel 1.4571, circular form/copper-zink-alloy
Inspection glass:	Polycarbonate
Accuracy:	Class 2.5
Wrench size:	14 mm
Nominal pressure:	maximum 230 bar/ 300 bar
Display range:	see gauge scale
Threshold:	Freely adjustable in marked range (45° of the display range from p = 0 originating)
Gas suitability:	All gases
Contact:	inductive slit sensor (in accordance with NAMUR)
Working temperature:	ambient: -25°C to +70°C measuring medium maximum +100°C
Protection class:	II 1G EEx ia IIC T6 EG-Baumusterprüfbescheinigung PTB 99 ATEX 2219 X
Control behavior:	I 1 contact closes the control circuit at exceeding the adjusted setpoint I 2 contact opens the control circuit at exceeding the adjusted setpoint
Dimensions (Ø×d×h):	50×35×70 mm
Connection:	NPT 1/4"m outside thread

Item No.	Type/Contact-Type	Material	Display range bar	psi	kPa
H28191103	KI 50-315/i1	BC	0 – 315	0 – 4500	0 – 31500
H28191101	KI 50-315/i1	SS	0 – 315	0 – 4500	0 – 31500
H28191203	KI 50-400/i1	BC	0 – 400	0 – 5800	0 – 40000
H28191201	KI 50-400/i1	SS	0 – 400	0 – 5800	0 – 40000
H28191203	KI 50-25/i2	BC	0- 25 bar	0 - 363	0 - 2500
H28195803	KI 50-40/i2	BC	0- 40 bar	0 - 580	0 - 4000
H28297101	KI 50-25/i2	SS	0- 25 bar	0 - 363	0 - 2500