

MARSH®

Contact Gauges



Description

Stainless steel case electrical contact units

Model EC (magnetic snap action)

Available for bourdon tube & diaphragm gauges, & gas filled thermometers.

Nominal sizes, 100 & 160 mm

Accuracy: Class 1 (bourdon tube)

Class 1.6 (diaphragm)

Magnetically assisted snap-action, interference contacts, which open or close a circuit when actioned by the instrument pointer. By means of a removable setting key, it is possible to alter the contact points to any position over the instrument scale. With a single contact the instrument pointer meets with the set limit contact, the touching pins giving the contact. With a double contact, this occurs at two set points. The magnetic attraction of the contacts can be altered by adjusting the magnet, by means of suitable driver, closer or further away from the contact pins.

The magnetic attraction and / or release always involves an interference in comparison with the set limit values, this is between 1 and 6% of the full scale value, depending on the intensity of the magnetic attraction.

Features

Fully adjustable contacts

Built in behind the dial contacts

Deep stainless steel bayonet locking case and bezel

Suitable for bourdon tube or diaphragm gauge

Protection up to IP65

Usable at full scale

Sealed cable box

Ranges

0 - 40 mbar (diaphragm)

0-1000 bar (bourdon tube)

Applications

Petrochemical and chemical Food and beverage Gas industry Machine and apparatus construction

Specifications: MEC

Dial Size	100	160
Case & Bezel Construction	Flush fitting bayonet locking case and bezel. 304 stainless steel. IP65 (filled) IP54 (dry)	
Cable box Construction -40 to +85°C	Polyamide 6. 6 pole plus earth. Screw terminals, up to 2.5mm wire. Cable gland. PG 13.5 exterior cable 7 - 13 mm diameter.	
Material Construction		
Contact:		
Plate	Plastic	
Contact Material	Silver nickel, optional, gold plated, gold silver, platinum iridium.	
Solder Terminal	Nickel plated brass	
Spacer / window	Polycarbonate, optional toughened glass window	
Dial	Aluminium, black figures on white, optional, other colours	
Pointer	Aluminium, black, balanced	
Over-range limit	105% full scale	
Technical Data		
Rated operational voltage	250 V max	
Making or breaking current	1.0 A max	
Permanent current	0.6 A max	
Switching capacity	DC 30 W max	AC 50 VA
Standards	EN 60947-1 EN 60947-1A11 EN 60947-5-1	
Permissible		
Ambient Temperature	-20 to +70 Degree C	
Filling Liquid	FDA approved food oil. Silicone. Fluorolube	
Mountings	Direct bottom, direct back, surface, flush panel, panel fixing	

All specifications are subject to change without notice

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