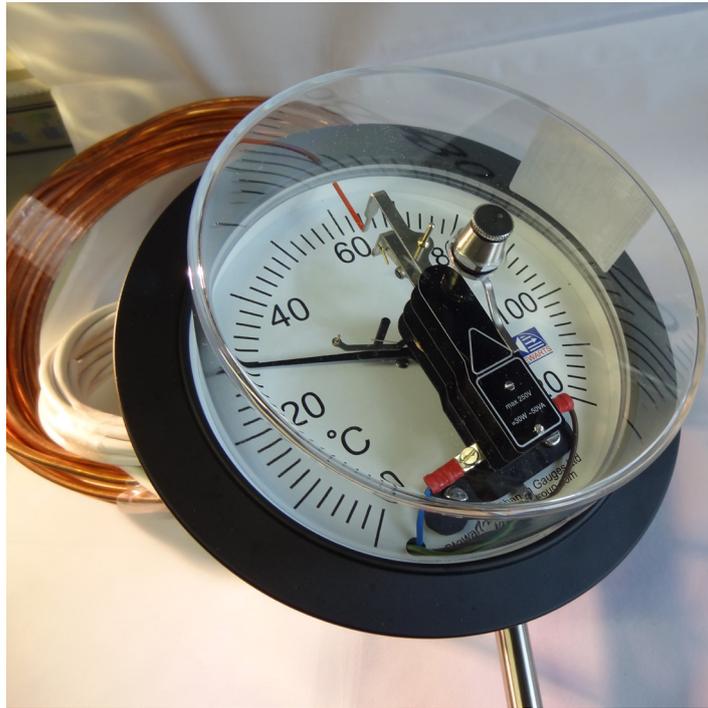


Electric Contact Gauge



Most of the instruments on our range can be supplied fitted with Electric Contacts.

A wide range is available to meet all applications and a high standard of quality ensures many years of trouble free operation.

They can be used in temperatures of -20 to + 140 Deg.c. (Maximum of 80 Deg.c. for inductive and pneumatic types) but care should be taken to ensure that stated switching capacity is not exceeded.

Single or double contacts are standard with triple contacts available on special request.

Make or break settings can be achieved in a variety of permutations with rising or falling pressure / temperatures.

Setting is made by a withdrawable key which permits setting of the instrument at any point in the scale.

The contact device allows the instrument pointer to continue indicating after the switching operation has taken place

Electric Contact Gauge



Standard Contact Device (Low Action)

These contacts are intended for use where a heavy contact load is not required and the instrument is not subject to vibration. Because of their tendency to spark they should not be used in hazardous areas.

Switching Capacity:- Suitable for d.c. or a.c. currents up to 250V and switching capacities up to 10W 18VA. The current to be switched must not exceed 0.7A.

Magnetic Contact Device

These contacts can be used in any non-hazardous area. They are largely insensitive to vibration. We also recommend that an Electrical Contact Gauge for use on vibration applications, that a time delay type relay should be used.

They are fitted with an adjustable magnet which attracts the contact arm just before the preset reading is reached.

This avoids arcing and scorching of the contact pin.

Switching Capacity:- Suitable for d.c. or a.c. currents up to 250V and switching capacities up to 3W 50VA MAX. The current to be switched must not exceed 1.0A.

Inductive Contact Device (Intrinsically Safe Ex)

Suitable for use in hazardous areas with explosion hazard rating up to (Ex) i G5.

These contactless devices generate an electric impulse by inductive means. Basically the system consists of a pair of coils energized in a transistorised oscillator whose RF magnetic field is influenced by a metal tab. This influence causes a change in the amplitude of oscillation of the oscillator and this is communicated to an amplifier. By means of an amplifier, a relay is actuated which releases the switching process.

To be used in conjunction with relay isolation/switch Type WE77/Ex1. or WE77/Ex2.

Pneumatic Contact Device

These units serve as monitoring and regulating units in pneumatic systems and can be used in hazardous areas to the highest Ex-safety classification (Zone 0).

The signal is created by a metal tab reaching the required setting and the control air current being interrupted by this tab crossing through the combined set of jets.

Operating air pressure 20 PSI (1.4kg/cm²). Air supply to be clean with filters to remove impurities in excess of 0.04mm. Permissible ambient temperature -25 to + 80 Deg.c. With temperatures below freezing point, the dewpoint of operating air must be 10 Deg.c. lower than the lowest permissible temperature in the unit.

NOTES:

“VOLT FREE” CONTACTS. (Sometimes referred to as “Dry Contacts”)

A set of contacts that are mechanically operated, but have no power of their own.

The user is free to provide a supply signal (voltage) within the rating of the contact device.

When the contact device activates (i.e. closes), the supply signal is then provided as output.

“Volt Free” contacts carry & switch system signal (voltage). They are NOT free from voltage.

PNEUMATIC CONTACTS – These are completely free of any voltage.

STEWART-BUCHANAN GAUGES LTD

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