

MODELS- HVAC Bi-Metal Series- ATEX Version

"ATmosphere EXplorable"



Rigid Stem Bi-Metal Stainless Steel Case, Brass Stem, Thermometer

Dial Size 100mm,150mm (4", 6")

These instruments are designed for explosive atmospheres in the Heating, Ventilation and Air Conditioning Industries.

The STEWARTS temperature gauges are in conformity with the essential Health and Safety Requirements laid down in European Directive 2014/34/EU for Group II, Category 2G or 2D equipment in the T1...T6 temperature classes, as specified by EN ISO 80079-36:2016 and EN ISO 80079-37:2016 standards.

NOT suitable for ZONES 0 and 20.

Equipment Group: II

Equipment Category: Gas 2G and Dust 2D

100mm & 150mm are available, as fillable version or filled version.

They have the same functional and constructive features as all HVAC Bi-Metal series models. (See standard HVAC Bi-Metal series data sheet)

They differ from them as follows :

Ambient temperature:

Unfilled Gauge	-20°C to + 60°C	(-4 to + 140°F)
Pure Glycerine	0°C to + 60°C	(32 to + 140°F)
80/20 Glycerine	-20°C to + 60°C	(-4 to + 140°F) (STANDARD)
Silicone 200/200	-20°C to + 60°C	(-4 to + 140°F) (STANDARD)

Damping liquids: glycerine, silicon oil.


Protection degree: IP 66 as per EN 60529/IEC 529.

Max allowable surface temperature: See table (*measured at gauge connection inlet*).

Class	Instrument Case	
	Dry	Filled
T6 : 85°C (185°F)	85°C (185°F)	90°C Glycerine
T5 : 100°C (212°F)	100°C (212°F)	
T4 : 135°C (275°F)	120°C (248°F)	120°C Silicone
T3 : 200°C (392°F)		
T2 : 300°C (572°F)		
T1 : 450°C (842°F)		

The actual maximum surface temperature (At the stem/process connection) can equal the process. Not due to instrument working but only due to process fluid temperature or ambient conditions. Ensure instrument maximum scale range does not exceed the temperature class.

Window: Safety glass.

Dial marking:  II 2GD Ex h IIC Tx Gb X , year of manufacture, model name, name of manufacturer and serial number.
Tx and X represent unknown process conditions and applications (Refer to ATEX installation manual)

Special dial: Scale ranges outwith standard EN13190, custom artworks and dials without Stewarts logo are **not available**.

Options: Perspex or glass windows are **not available**.

Further options: (To prevent potential ignition source from becoming effective)

- Liquid filled / Suitable for liquid filling

Included documentation: ATEX Installation manual.

(This is an integral part of the supply, read carefully before using product)

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