

Temperature control of heat trace circuits in safe or hazardous areas

- Three wide span temperature ranges
- Stainless steel sensor and capillary tube
- Optional over-temperature lock-out
- Approved for use in Zone 1 and 2 hazardous areas
- Enclosures suitable for Gas groups IIA, IIB & IIC
- Stainless steel armoured capillary

FEATURES

Capstats are temperature adjustable ON-OFF thermostats comprising a liquid filled sensing bulb connected to an electrical switch via a capillary tube.

Expansion of the liquid on rise in temperature causes the switch to open, and on cooling, it closes.

Capstats may control surface temperatures such as pipes or vessels, or the sensing bulb may be positioned to sense the air temperature.

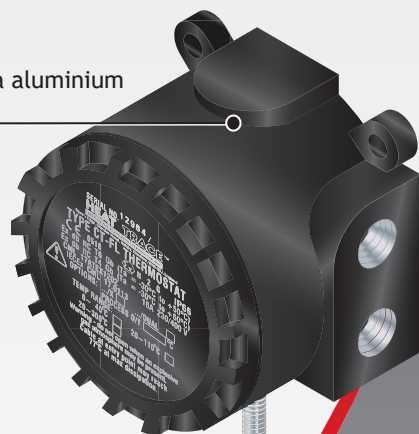
They may be used to provide process temperature control in safe or Zone 1 or 2 hazardous areas by switching the heating circuits at the desired temperature and are available to suit Group LLA, LLB or LLC gases.

The addition of a high limit cut-out switch (as provided with the Capstat-Dual version) is specified when the heat tracing scheme will not stabilise at a safe temperature without process control. It will operate if the process control switch fails or if an unsafe process temperature occurs.

OPTIONS

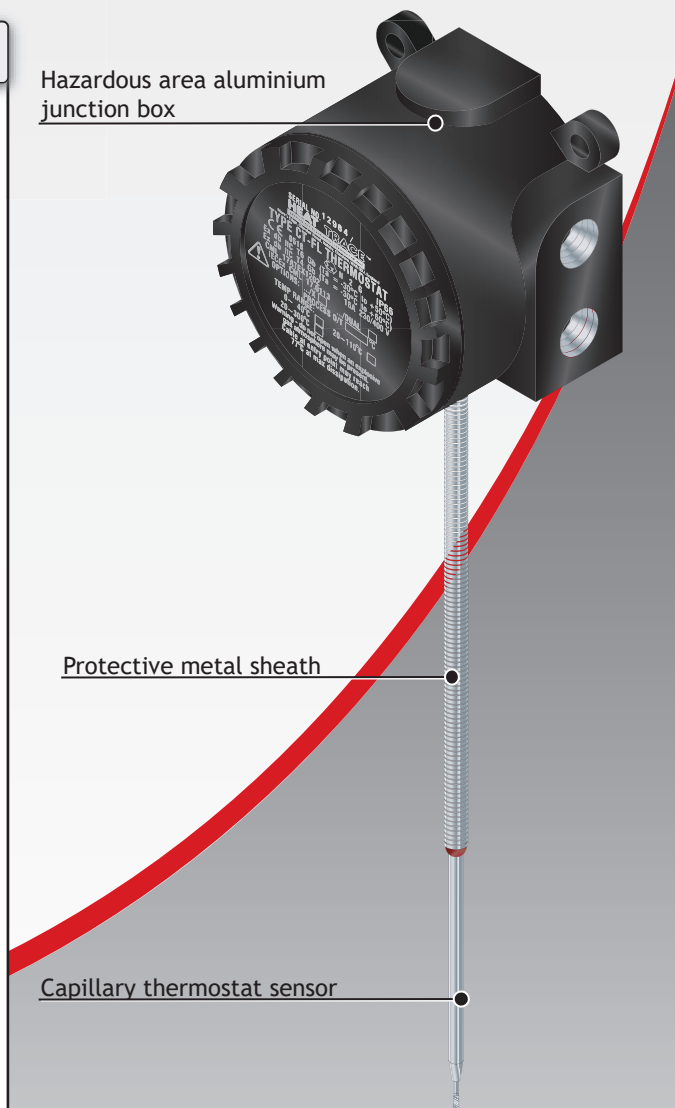
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|------------------------|--|
| CT-FL ../X | Hazardous area Ex'd Capstat suitable for use in Zone 1 and 2 hazardous areas, Gas Groups IIA, IIB and IIC. |
| CT-FL ../X/DUAL | Hazardous area Ex'd Capstat suitable for use in Zone 1 and 2 hazardous areas, Gas Groups IIA, IIB and IIC. Over-temperature lock-out (20° - 300° C) (Factory preset) |

Hazardous area aluminium junction box



Protective metal sheath

Capillary thermostat sensor



SPECIFICATION

THERMOSTAT SPECIFICATION

	Type A	Type B	Type C
Temp. range (°C)	0-40	20-110	20-300
Setting accuracy	±6	±6	±14
Switch differential (°C)	2±1.5k	4±2k	10±4k
Max. sensor temp (°C)	110	140	320
Min. sensor temp (°C)	-20	-20	-15
Capillary tube length (m)	1.5	1.5	1.5
Capillary tube material	Stainless Steel		
Capillary tube protection	Stainless Steel Conduit		
Sensor diameter (mm)	6	6	6
Sensor length (mm)	143.5	140	89.5
Sensor type	Liquid Filled		
Sensor Material	Stainless Steel		
SWITCH TYPE	Single Pole, Single Throw Changeover		
SWITCH RATING	16A (Max), 230V/400V resistive load		
SWITCH LIFE	100,000 operations		
TEMPERATURE SETTING ADJUSTMENT	Internal Tamperproof Knob		
INGRESS PROTECTION	IP66		
ENCLOSURE	CT-FL		
Material	Cast aluminium		
Finish	Anodised black, Paint, Powder Coating or Epoxy		
Conduit entries	3 x 16 - 25mm Diameter		
Dimensions	130 x 130 x 93		
Weight	4.3kg		
Protection	Ex(db)		
Area Suitability	Zone 1 or 2 IIA or IIB or IIC		
TERMINALS	Electrical connections 2.5mm ² terminals (incoming/outgoing)		
MAX POWER DISSIPATION	16.80W		

ORDERING INFORMATION

Example	CT-FL/2C/A/X/DUAL
Capstat capillary thermostat	
Hazardous area version	
Temperature range (0 - 40°C)	
Armoured capillary	
Dual lock-out*	

* When ordering a Dual thermostat, please state the maximum permissible workpiece surface temperature (factory preset)

'DUAL' SPECIFICATION

	Low Temperature Thermostat	High Temperature Thermostat
Temperature Range	35 - 120°C	100 - 320°C
Switching Differential	+/- 4.5°C	+/- 8°C
Maximum Sensor Temperature	As indicated for types A, B or C as appropriate	
Probe Diameter x Length	Ø6mm x 1067mm	Ø3mm x 875mm

EARTHING

Internal and external earthing options available




'T' CLASSES

CT-FL	AJB/D
Ta = -30°C to +50°C = T6	Ta = -50°C to +50°C = T6
Ta = -30°C to +60°C = T4	Ta = -50°C to +60°C = T4

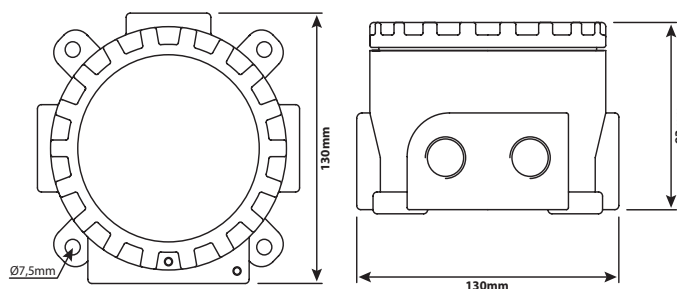
BLANKING PLUGS

The equipment is not supplied with blanking plugs or cable glands, it is the responsibility of the user to ensure that suitably certified glands/plugs are fitted that do not affect the type of protection. A bottom entry may also be fitted with Peppers type 781D breather / drain plug. (Sira 10ATEX1307U / IECEx SIR 10.0149U). Only use approved termination methods that are provided.

APPROVAL DETAILS - CT-FL

Testing Authority	Certificate No.
ATEX 	CML 17ATEX1202
IECEX 	IECEX CML 17.0113
EAC 	TC RU C-GB MIO62.B.06043

CT-FL/2C VERSION



FLUXO