

CT-FL

Temperature control of heat trace circuits in safe or hazardous areas

CAPSTAT
Capillary Thermostats

- 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 IIA, IIB or IIC 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.



Capstat Type CT-FL     

OPTIONS

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)

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

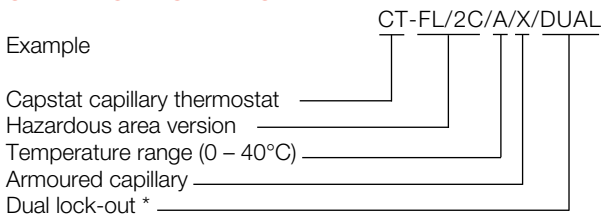
Material	Cast aluminium
Finish	Anodised black, Paint, Powder Coating or Epoxy
Conduit entries	3 x 16 - 25mm Dia
Dimensions	130 x 130 x 93
Weight	4.3kg
Protection	Ex(db)
Area Suitability	Zone 1 or 2 IIA or IIB or IIC

TERMINALS:

Electrical connections 2.5mm² terminals (incoming/outgoing)

MAX POWER DISSIPATION: 16.80w

ORDERING INFORMATION



* 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:	6mm Dia x 1067mm	3mm Dia x 875mm

EARTHING

Internal and external earthing options available.

'T' CLASSES





Ta = -20°C to +50°C = T6

Ta = -20°C to +60°C = T4

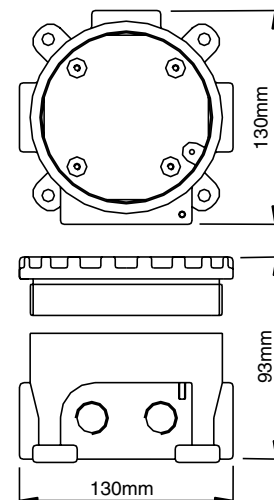
BLANKING PLUGS

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.AA87.B.00614

CT-FL/2C VERSION



HEAT TRACE™
SETTING THE STANDARDS LEADING THE WAY

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