CT / CT-FL

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 (CT-FL version)
- Enclosures suitable for Gas groups IIA, IIB & IIC
- Optional stainless steel armoured capillary

FEATURES

Capstats are temperature adjustable ON-OFF thermostats comprising a liquid filled sensing bulb conected 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 positionad 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 heaing circuits at the desired temperature and are available to suit Group IIA, IIB or IIC gases.

(Ex'd' barrier glands are mandatory).

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

CT Capstat for use in safe areas.

CT-FL Hazardous area Ex'd Capstat suitable for use

in Zone 1 and 2 hazardous areas, Gas Groups

IIA, IIB and IIC.

CT ../X Optional armoured capillary provides additional

mechanical protection for the capillary tube(s).

CT ..DUAL Over-temperature lock-out (20° - 300°C)

(Factory preset)



Capstat Type CT (€





Capstat Type CT-FL ()











SPECIFICATION

THERMOSTAT SPECIFICATION

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	Type A	Type B	Type C
Temp. range (°C) Setting accuracy Switch differential (°C) Max. sensor temp (°C) Min. sensor temp (°C) Capillary tube length (m)	0-40 ±6 4±2 130 -20 1.5	20-110 ±6 4±2 140 -20 1.5	20-300 ±12 5.5±2.5 320 -20 1.5
Capillary tube material Capillary tube protection	Stainless Steel Stainless Steel Conduit (optional)		
Sensor diameter (mm) Sensor length (mm)	6 116	6 119	6 77
Sensor type Sensor Material	Liquid Fille Stainless S		
SWITCH TYPE	Single Pole, Double Throw Changeover		
SWITCH RATING	16A (Max), 230V/400V resistive load		
SWITCH LIFE	100,000 under load (Min)		
TEMPERATURE SETTING ADJUSTMENT	Internal Tamperproof Knob		

ENCLOSURE

	СТ	CT-FL
Material	Glass reinforced Polyamide	Cast aluminium
Finish	Matt black	Anodised black, Paint, Powder Coating or Epoxy
Conduit entries	3 x 16 - 25mm Dia	3 x 16 - 25mm Dia
Dimensions	121 x 121 x76	130 x 130 x 90.5
Weight	0.9kg	4.3kg
Protection	N/A	Ex(d)
Area Suitability	Safe	Zone 1 or 2
TEDMINIALO		IIA or IIB or IIC

TERMINALS

ELECTRICAL CONNECTIONS

2.5mm² terminals (incoming/outgoing)
 4.0mm² terminals to special order
 10mm² internal earth terminal

ORDERING INFORMATION

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

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

'DUAL' SPECIFICATION	
TEMPERATURE RANGE	20 – 320°C
SWITCHING DIFFERENTIAL	Resettable (see note)
MAXIMUM SENSOR TEMPERATURE	As indicated for types A, B or C as appropriate
MINIMUM SENSOR TEMPERATURE	-20°C
PROBE DIAMETER & LENGTH	4mm dia x 90mm x 1m
Note	
The thermal cut-out can be reset when the temperature of the sensor has fallen approx 30°C below high limit set-point.	

MINIMUM OPERATING TEMPERATURE

-20°C (-4°F)

BLANKING PLUGS

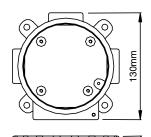
Ex(d) certified blanking plugs for flameproof thermostats are available at extra cost on request.

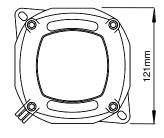
APPROVAL DETAILS - CT-FL

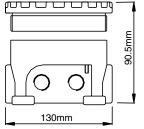
Testing	Authority	Certificate No.
ATEX	€x>	SIRA03ATEX1001
IECEx	IEC TECEX	IECEx SIR 10.0042
EAC	EAC	TC RU C-GB.ГБ05.В.00187

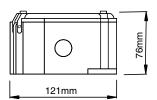
CT-FL/2C VERSION













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