ExTemp

Intrinsically Safe Infrared Temperature Sensor



Suitable for hazardous areas, Zone 0, 1 and 2 (gas), and Zone 20, 21 and 22 (dust), with a suitable

Intrinsically Safe isolator Temperature range: -20°C to

Two wire, 4-20 mA output

for offshore applications

Supplied with up to 25 m cable

Rescalable output and adjustable

emissivity setting via optional USB

Fast response time and high stability Stainless steel 316 housing - ideal

1000°C

adapter

IP65 sealed



GENERAL SPECIFICATIONS

Temperature range Maximum Temperature Span Minimum Temperature Span Output **Field of View** Accuracy Repeatability **Emissivity Setting Range Emissivity Setting Method** Response Time, t₉₀ Spectral Range Supply Voltage **Maximum Current Draw** Maximum Loop Impedance

See table of Model Numbers 1000°C 100°C 4 to 20 mA See table of Model Numbers \pm 1°C or 1%, whichever is greater \pm 0.5°C or 0.5%, whichever is greater 0.20 to 1.00 (pre-set to 0.95) User configurable via USB interface 240 ms (90% response) 8 to 14 um 12 to 24 V DC ± 5% 25 mA

See Application Guide (available separately)

HAZARDOUS AREA CLASSIFICATION

ATEX Classification **IECEx Classification (Gas) IECEx Classification (Dust) Ambient Temperature Rating** Maximum DC Input Voltage **Maximum Input Current** Maximum Input Power Maximum Internal Capacitance Maximum Internal Inductance ATEX Certificate Number **IECEx Certificate Number**

Ex II 1GD Ex ia IIC T4 Ga Ex ia IIIC T135°C IP65 Da $-20^{\circ}C \le Ta \le 70^{\circ}C$ Ui = 28 V li = 93 mA Pi = 650 mW Ci = 8 nF li = 0 mHCML 14ATEX2079 IECEx CML 14.0032

MECHANICAL

Construction **Major Dimensions**

Mounting

Cable Length

Weight with 5 m Cable

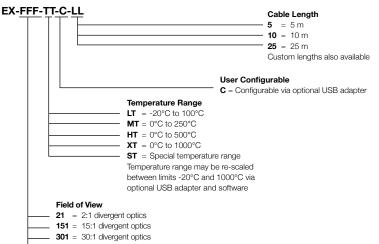
ENVIRONMENTAL

Environmental Rating Ambient Temperature Range Relative Humidity CE Marked **RoHS Compliant**

Stainless Steel 316 Ø 20 x length 150 mm (see Dimensions) M20 x 1.5 mm thread, length 46 mm, supplied with two mounting nuts 5 m, 10 m or 25 m as standard (custom lengths also available) 475 g

IP65 (NEMA 4) 0°C to 70°C (Operating range) Max. 95% non-condensing Yes Yes

MODEL NUMBERS

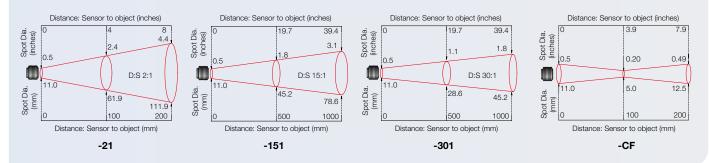


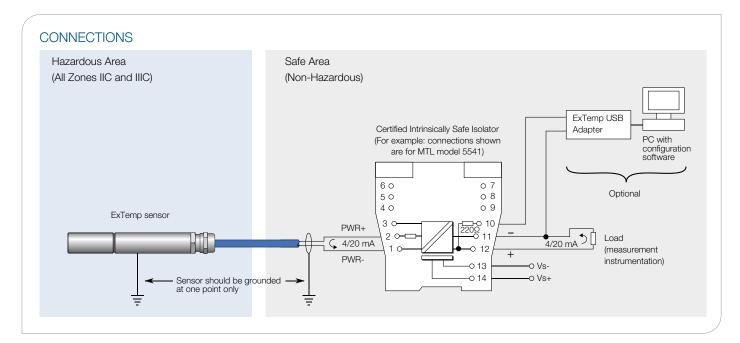
CF = Close focus optics (Spot Ø 5 mm at distance 100 mm)

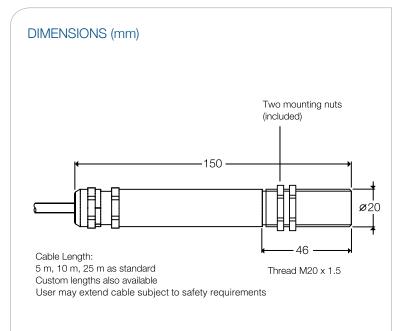


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DIAMETER OF TARGET SPOT MEASURED VERSUS DISTANCE FROM SENSING HEAD









Calex Electronics Limited

CONFIGURATION

The ExTemp sensor may be connected to a PC via the optional USB adapter and included Windows software.

Configurable settings include the emissivity setting, 4-20 mA temperature range, averaging, peak and valley hold processing and reflected energy compensation.



ACCESSORIES

FBL	Fixed mounting bracket (1-axis rotation)
ABL	Adjustable mounting bracket (2-axis rotation)
APMW	Air purge collar (for 2:1 optics)
APMN	Air purge collar (for all other optics)
CALCERTA	Calibration certificate, 3 temperature points, UKAS traceable
LCT	USB adapter and configuration software