

Fibratemp & Redline

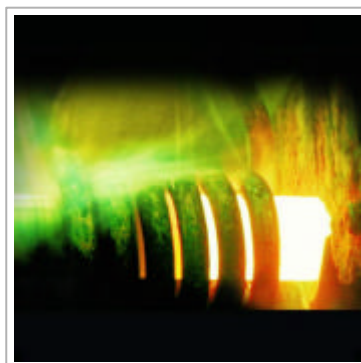
Fibre Optics Infrared Thermometers
with Laser Alignment



REDLINE



FIBRATEMP



NEW GENERATION Stand-Alone thermometers

Easy installation with no critical alignment

High resistant materials of fibre and optic head up to 315°C

Different models for a wide range of applications



SITEL Control



Fibratemp & RedLine are a new fiberoptic infrared thermometer system developed for industrial hostile ambient, protected against measurement environment such as: Ambient high temperature; Electromagnetic fields; Presence of dust and steam; etc.

Fibratemp & RedLine have a compact stainless steel Optical head IP65 protected working up to 315°C ambient. In a typical fixed application the Optical head would include an air purging system capable to keep lens cleaned also in a hard environmental ambient.

Technical data

Power supply:

24Vcc (4 wires - Fibratemp) ; 24Vcc (2 wires - RedLine)

Optical Head:

Steel inox (IP65)

Electronic case:

Aluminium IP65

Fibre optic length:

from 1.5 meter ; 3 meter ; 6 meter

Optic ratio:

70:1 focal distance from 200 ; 500 ; 1000 mm

Output signal:

analogical 4-20 mA linear ; digital RS 485 (mod. Fibratemp)

Response time:

from 10 ms up to 5 sec.

Emissivity control (monochromatics):

from 0.20 % to 1.10 % on step of 0.01

Non Greyness control (two color):

from 0.750 to 1.250 on step of 0.005

Operating Temperature:

case: from 10 to 60°C; Optical head and fiber optic: from 10 to 315 °C

Relative Humidity :

from 10 % to 90 % (without condensation)

Optional accessories :

Air purge, orientable mounting bracket, sighting tube.

The associated Electronic unit located remotely is linked to the Optical head by a high strength sealed fibre optic light guide able to work up to 315°C ambient.

The Electronic unit provides a signal treatment allowing Averaging, Peak picking, and isolated analog output for process control connection.

A serial communication facility gives digital RS485 outputs and allows access to system parameters adjustments from a remote PLC.

Fibratemp & RedLine system include a Monochromatic models for steel, glass, non-ferrous applications and a Two-colour models for low and variable emissivity applications or where dust or steam are present in the process.



Model	Temperature Range °C	Working Wavelength	Optical Ratio	Minimum Target mm	Focal Distance mm
FIBRATEMP M	400 - 1100	1,6 um	70 : 1	3 / 7 / 14	200 / 500 / 1000
FIBRATEMP H	600 - 1600	1,1	70 : 1	3 / 7 / 14	200 / 500 / 1000
FIBRATEMP GL	900 - 1800	0,85	70 : 1	3 / 7 / 14	200 / 500 / 1000
FIBRATEMP MR	300 - 700	1,3 / 1,55	50 : 1	7 / 20	350 / 1000
FIBRATEMP HR	600 - 1300	0,85 / 1,1	50 : 1	7 / 20	350 / 1000
FIBRATEMP MH	300 - 2200	1,1 / 1,6	50 : 1	10 / 20	500 / 1000
RedLine M	400 - 1100	1,6	70 : 1	3 / 7 / 14	200 / 500 / 1000
RedLine H	600 - 1400	1,1	70 : 1	3 / 7 / 14	200 / 500 / 1000
RedLine GL	900 - 1800	0,85	70 : 1	3 / 7 / 14	200 / 500 / 1000

Specifics can be changed without notice B. FTP. 01 UK

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