IRtec Rayomatic USB

eurotron
"Excellence in measurements"

Process infrared thermometer with 4-20 mA output and USB communication

Rayomatic USB non-contact infrared sensors measure temperatures from -40°C to 1000°C and provide a linear 4 to 20 mA output. The signal is compatible with almost any indicator, controller, recorder, data logger etc., without the need for special interfacing or signal conditioning.

They are suitable for most materials such as food, paper textiles, plastics, leather, tabacco, pharmaceutical, chemicals, rubber coal and asphalt.

Fully configurable by PC, Rayomatic USB is supplied with IRConfig software and USB cable. The emissivity and range can be set with the software or adjusted by OPC client.

The sensor can be either connected with the 4-20 mA cable, the USB cable or both.

INFRARED THERMOMETERS

▶ Range from -40°C to 1000°C

▶ 8 to 14 μm

▶ Two-wire 4-20 mA output

▶ Temperature range, emissivity setting… configurable by PC via IRConfig software and USB cable

▶ Emissivity from 0.1 to 1.0

▶ 15:1, 30:1 and CF optics

▶ OPC server capabilities

▶ Data acquisition, alarms and scrolling graphical display

▶ IP65 stainless steel housing

▶ Optional air/water cooled housing, air purge collar, laser sighting tool, dual laser sighting bracket, mounting brackets…

CE

AOIP SAS
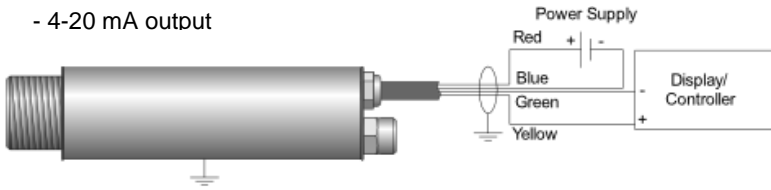50-52 Avenue Paul Langevin
F-91130 Ris Orangis
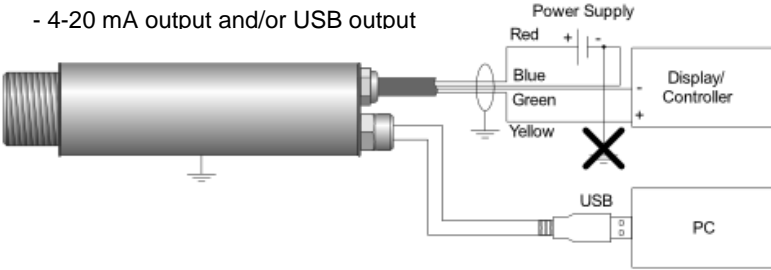Tel: +33 (0)169 028 900 – Fax: +33 (0)169 020 599
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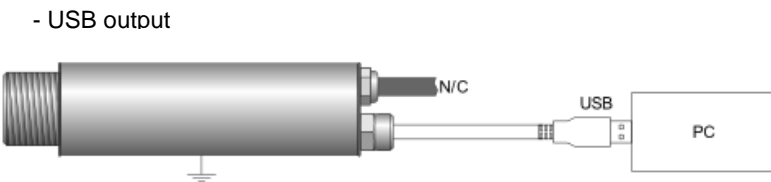"Excellence in measurements"

Output connection

- 4-20 mA output

- 4-20 mA output and/or USB output

- USB output
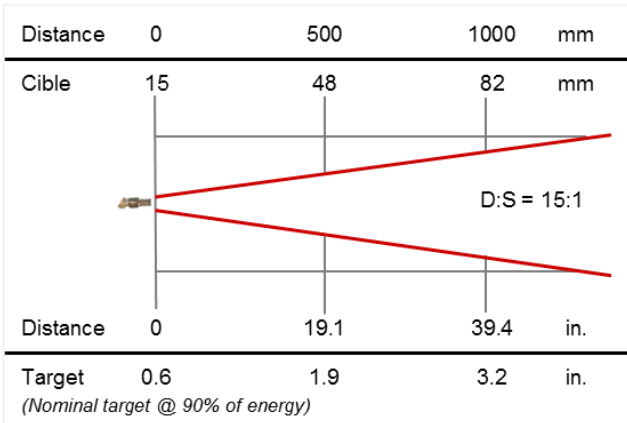

Technical specifications

Range	-40 to 1000°C
Optics	15:1, 30:1, CF
Output	Linear 4-20 mA
Accuracy	±1% RDG or 1°C
Repeatability	±0,5%RDG or 0.5°C
Emissivity	Adjustable from 0.1 to 1.0
Response time	240 ms (90%)
Spectral band	8 – 14 µm
Supply voltage	24 VDC (Max 28 VDC)
Sensor voltage	Min 6 VDC
Loop impedance	900 Ω Max (4-20 mA OUT)
Construction	Stainless steel
Dimensions	Ø 25 x 106.5 mm
Thread mouting	M20 x 1 mm
Weight with cable	175 g
Cable length	4-20 mA: 1 m / USB: 1 m (further lengths in option)
Environmental rating	IP65
Working temperature	0 to 70°C
Relative humidity	95% non-condensing

Optics

Distance	0	500	1000	mm
Cible	15	48	82	mm

D:S = 15:1

Distance	0	19.1	39.4	in.
Target	0.6	1.9	3.2	in.

(Nominal target @ 90% of energy)

Distance	0	500	1000	mm
Cible	15	32	48	mm

D:S = 30:1

Distance	0	19.7	39.4	in.
Target	0.6	1.2	1.9	in.

(Nominal target @ 90% of energy)

Distance	0	100	200	mm
Cible	15	5	15	mm

CF

Distance	0	3.9	7.9	in.
Target	0.6	0.2	0.6	in.

(Nominal target @ 90% of energy)
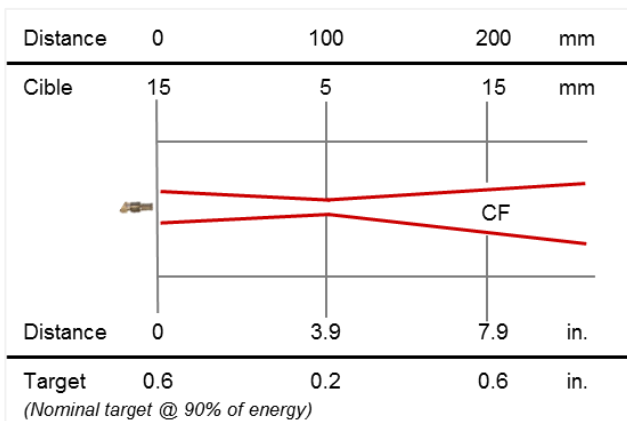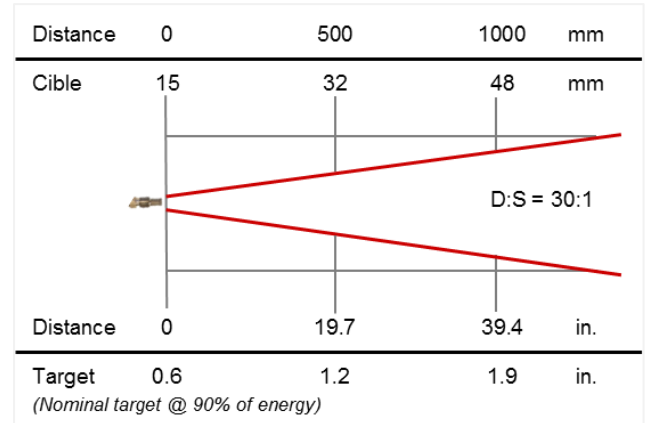
Accessoires

FBL Fixed mounting bracket
ABL Adjustable mounting bracket

LSTL Laser sighting tool

DLSBFL Dual laser sighting bracket, fixed
DLSBAL Dual laser sighting bracket, adjustable
DLSBCE Extended cable - 1 m

APSL Air purge collar

WJ Air / Water cooled jacket + air purge collar

Code de commande

USB-AA-BB-C/MAN

Delivered in standard with IRConfig software, USB cable, output cable, instruction manual in English

Table AA	Optics – Distance to target
15	Optics 15:1, 48 mm @ 500 mm
30	Optics 30:1, 32 mm @ 500 mm
CF	Close focus lens, 5 mm @ 100 mm

Table BB	Accessories
NO	None
WJ	Air / Water cooled jacket and air purge collar

Table C	Calibration certificate
0	None
1	Factory traceable calibration certificate with data

PWL Protective plastic window in stainless steel holder

Extended cable, up to 29 m extension
PUCE For sensor without WJ option - 1 m
PCCEHT For sensor with WJ option - 1 m