IRtec Rayomatic NET



Infrared thermometer with RS485 Modbus interface

IRtec Rayomatic NET is a range of high quality, low cost, compact sensors which measure the temperature of inaccessible or moving objects and materials. They measure temperatures from -20°C to 500°C, accurately and consistently, with an outstanding response time of 240 ms.

Two-way digital communications via a built-in RS485 Modbus RTU interface enables the user to adjust the emissivity setting; compensate for reflected energy; apply filtering; select maximum, minimum, average or instantaneous readings; and peak or valley hold processing.

Up to thirty two sensors can be installed on a single multidrop network.

AVG

INFRARED THERMOMETERS



- 2:1, 15:1, 30:1 CF optics
- Stainless steel IP 65 housing

Range from -20°C to 500°C

Configurable emissvity

MAX

instantaneous reading,

signal processing

/

and valley hold

8 to 14 µm

interface

MIN

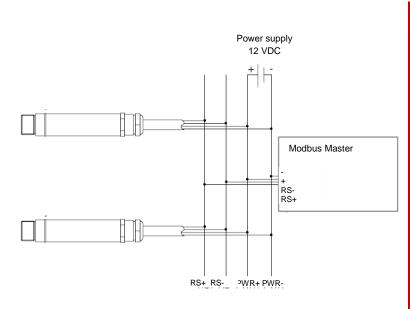
- Optional touch screen terminal (Digimax 180) for configuration, indication, alarm generation and data logging from multiple sensors
- Optional air/water cooled housing, air purge collar, laser sighting tool, dual laser sighting bracket, mounting brackets...

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IRtec Rayomatic NET

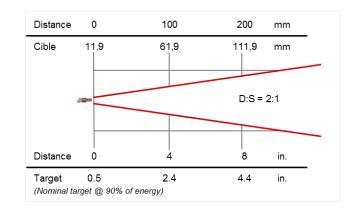


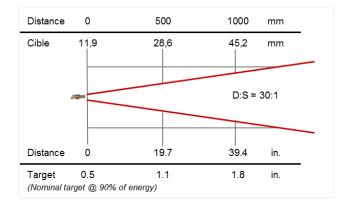
Output connections

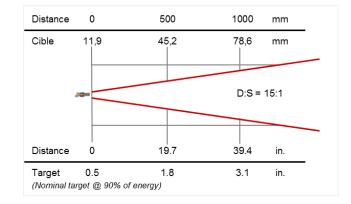


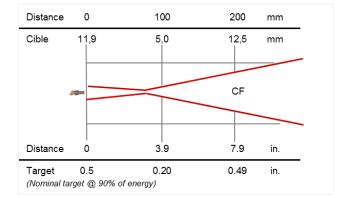
Range	-20 to 500°C
Optics	2:1, 15:1, 30:1, CF
Interface	RS485 Modbus RTU
Accuracy	±1% RDG or 1°C
Repeatability	±0.5% RDG or 0.5°C
Emissivity	From 0.2 to 1.0
Response time	240 ms (90%)
Spectral band	8 – 14 µm
Supply voltage	12 VDC (Max 6 - 13 VDC) 50 mA max
Baud rate	9600°
Format	8 bits, no parity, 1 stop bit (Further formats upon request)
Construction	Stainless steel
Size	Ø 18 x 103 mm
Thread mounting	M16 x 1 mm
Weight with cable	95 g
Cable length	1 m in standard (further in option)
Environmental rating	IP65
Working temperature	0 to 70°C
Relative humidity	95% non-condensing

Optics









Technical specifications

IRtec Rayomatic NET



Accessories



FBS Fixed mounting bracket ABS Adjustable mounting bracket



LSTS Laser sighting tool



DLSBFS Dual laser sighting bracket, fixed DLSBAS Dual laser sighting bracket, adjustable DLSBCE Extended cable - 1 m



APSW Air purge collar (2:1) APSN Air purge collar (15:1, 30:1, CF)



WJ Air / Water cooled jacket + air purge collar

Ordering instructions

NET-AA-BB-C/MAN

Delivered in standard with instruction manual in English

Table AA	Optics – Distance to target
2	Optics 2:1, 61.9 mm @ 100 mm
15	Optics 15:1, 45.2 mm @ 500 mm
30	Optics 30:1, 28.6 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



PWS Protective plastic window in stainless steel holder

Extended cable, up to 29 m extension PBCE For sensor without WJ option - 1 m PBCEHT For sensor without WJ option - 1 m

MSD 2 Gb MicroSD card with SD card adapter DigiMax 180 6-channel touch screen hub Digimax 240 Panel-mount touch screen terminal, up to 8 sensors Digimax 240E Same + 4 0-10 VDC + 16 alarm outputs MBAC Change of Modbus address in factory