CYRONIX 416-444-6614

www.cyronix.com

Raytek® Thermalert® GP™ Series

Infrared Temperature Sensing Heads For Use With GP Monitor



Highlights

- Temperature range 0 to 1000°F (-18 to 538°C)
- Compact 1/8 DIN digital monitor with large 4-digit display
- Monitor and sensor functions configured on front panel
- Adjustable emissivity and t-ambient parameters
- Universal 110-220 VAC Power included
- User-defined 4-20 mA or thermocouple output (J, K, E, N, R, S,T)
- Adjustable dual setpoints and deadband alarm outputs
- Choice of sensing head to match application requirements
- Standard and close-focus optics available
- Cooling and purging accessories
- Field interchangeable sensing heads

GPSF - GP standard focus sensing head (8-14µ) with 35:1 D:S ratio
GPCF - GPCF close focus sensing head (8-14µ) 0.1 in spot size at 3 in
GPM02 - GP miniature sensing head (7.6-18µ) with 2:1 D:S ratio
GPM10 - GP miniature sensing head (7.6-18µ) with 10:1 D:S ratio

MEASUREMENT SPECIFICATIONS (MONITOR w/SENSING HEAD)

Spectral Response & Temperature Range:

Sensing Head Model:	Spectral Response:	Temperature Range:
GPR	8 to 14 microns	0 to 1000°F (-18 to 538°C)
GPM	7.6 to 18 microns	0 to 1000°F (-18 to 538°C)

System Accuracy *(mA output):* ±1% of measured value or ±2°F (1°C) whichever is greater, @ 73°F ±9°F (23°C ±5°C)

System Repeatability: ±0.5% of measured value or ±2°F (1°C) whichever is greater

Response Time (95%):

GRP	700 mSec
GRM	1 Sec

Emissivity: 0.1 to 1.09 digitally adjustable increments of .01

Signal Processing: Peak/Valley Hold (up to 998 sec, 999=infinite hold with external reset)
Variable averaging filter (up to 60 seconds)
T-ambient: fixed background ambient temperature compensation

ACCESSORIES/OPTIONS

- Cooling housings for high ambient conditions
- Air purge fittings for cleaner optics
- Adjustable mounting brackets and adapters
- External isolated solid state relays for alarm outputs (10 Amp AC, 8 Amp DC)

CE

ISO 9001 Certified

ELECTRICAL SPECIFICATIONS

Outputs: 4-digit, 7 segment LED display, °F/°C selectable
User configurable 4-20 mA current or thermocouple output (J, K, E, N, R, S, T)
Two adjustable setpoints with deadbands controlling +5 V alarm outputs or optional 3A mechanical relays

Power Supply: 110/220 VAC, ±20%, 50-60 Hz
User configurable inputs for GPR, GPM, any 0-5 V or 4-20 mA sensor, or thermocouple (J, K, E, N, R, S, T)
External Reset input to reset Peak/Valley hold
24 VDC/50 mA excitation voltage

GENERAL SPECIFICATIONS

Environmental Rating:

GP Monitor Front Panel	IP 54 (IEC 529): NEMA-12
GPR Sensing Head	IP 65 (IEC 529): NEMA-4*
GPM Sensing Head	IP 65 (IEC 529): NEMA-4

**GPR rated with adapter and compression fitting*

Ambient Temperature Range:

GP Monitor	32 to 120°F (0 to 50°C)
GPR Sensing Head:	32 to 150°F (0 to 65°C)
With optional water cooling	32 to 350°F (0 to 177°C)
GPM Sensing Head:	32 to 185°F (0 to 85°C)
With optional air cooling	32 to 392°F (0 to 200°C)

Storage Temperature: -22 to 150°F (-30 to 65°C)

Relative Humidity: 10 to 95%, non-condensing

GP Monitor Dimensions: 1.75 x 3.63 x 4.75 in (1/8 DIN x 120 mm)

GP Monitor Weight: 0.7 lbs (320 g)