

Raytek GP Series

Measurement Specifications (Monitor w/ Sensing Head)

Spectral Response & Temperature Range:

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

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

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

Response Time (95%):
GPR 700 mSec
GPM 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

Electrical Specifications

Outputs 4-digit, 7 segment LED display, °C/°F 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	0 to 50°C (32 to 120°F)
GPR Sensing Head:	0 to 65°C (32 to 150°F)
With optional water cooling	0 to 177°C (32 to 350°F)
GPM Sensing Head:	0 to 85°C (32 to 185°F)
With optional air cooling	0 to 200°C (32 to 392°F)

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

Relative Humidity 10 to 95%, non-condensing

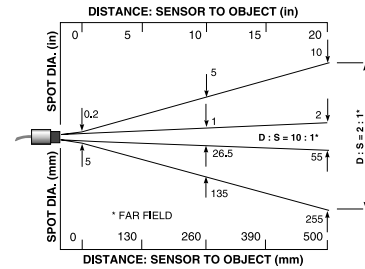
GP Monitor Dimensions 1/8 DIN x 120 mm (1.75 x 3.63 x 4.75 in)

GP Monitor Weight 320 g (0.7 lbs)

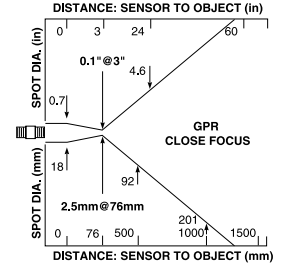
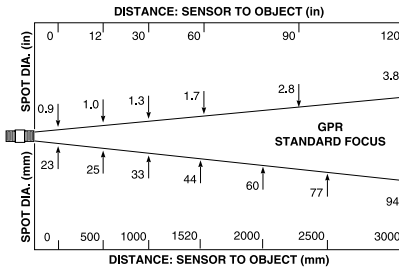
Sensing Head—Optical Specifications

(NOTE: nominal spot size based on 90% energy)

GPM Sensing Head Optical Chart

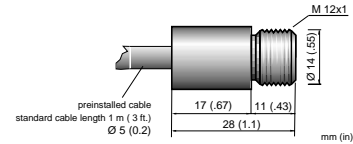


GPR Sensing Head Optical Charts

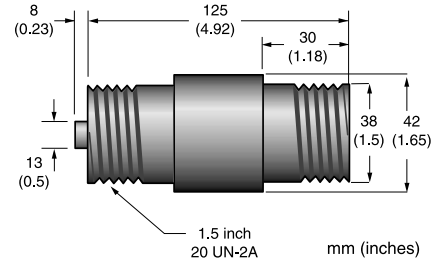


Dimensions

GPM Sensing Head



GPR Sensing Head



Accessories / Options

- Cooling housings for high ambient conditions
- Air purge fittings for sensing heads
- Adjustable mounting brackets and adapters
- External isolated solid state relays for alarm outputs (10 Amp AC)
- 3A mechanical output relays

For Sales and Ordering Contact:



5710 Kenosha Street
Richmond, Illinois 60071 USA
Phone: +1 (815) 678-2211
FAX: +1 (815) 678-3961
Internet: www.watlow.com
e-mail: info@watlow.com

Your Authorized Watlow Distributor Is:

For Service and Warranty Contact:



Worldwide Headquarters
Raytek Corporation
Santa Cruz, CA USA
Tel: 1 831 458 1110
800 227 8074 (U.S. and Canada only)
Fax: 1 831 458 1239
www.raytek.com



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