

- Wide Temperature range : 60°C ~ 1600°C
- Superior optical resolution up to 150:1
- Spot sizes down to 2.3 mm
- 5 ms response time
- Coaxial Red Laser aiming
- 4 ~ 20mA output
- Digital RS485 communications
- Simultaneous analog and digital outputs
- Rugged IP 65 stainless steel housing
- Adjustable signal processing
- Program and calibrate all Pyrometer Features via Raytek GPCM Controller with 2 set points and relays

Environmental Rating : IP 65 (NEMA - 4)
 Ambient Temperature : 0°C to 70°C
 Storage Temperature : -20°C to 80°C
 Relative Humidity : 10 to 95%,
 non-condensing
 Cable Temperature : -20°C to 80°C
 Weight : 280g (2m cable)

Temperature Range : 1M 600°C ~ 1600°C (1112°F to 2912°F)
 2M 300°C ~ 1300°C (572°F to 2372°F)
 3M 100°C ~ 600°C (212°F to 1112°F)
 3ML 60°C ~ 400°C (140°F to 752°F)

Spectral Response : 1M 150 : 1
 2M 150 : 1
 3M 60 : 1
 3ML 40 : 1

Optics Resolution (90% energy) : 1M-1µm, 2M-1.6µm, 3M/3ML: 2.3µm

Accuracy*¹ : ±(0.5% of reading +2°C)

Repeatability*¹ : ±(0.3% of reading +1°C)

Response Time (95% signal) : 5 ms

Emissivity : 0.100 ~ 1.000 (Adjustable from GPCM Controller)

Temperature Resolution : 0.1°C

Signal processing : peak hold, valley hold, average Adjustable from GPCM Controller)

Software : Raytek IR online

Analog Output : 4~20mA (4-wire)
 Digital Output : RS485 (2-wire)
 Maximum Loop Resistance : 500 Ω
 Power Supply : 24 VDC ± 20%
 Current Draw : max. 100 mA
 Cable Length : 2 m (standard), 5m or 10m

Input : RS485 (2-wire) from Raytek MI sensor

*¹ At 23°C ± 5°C, emissivity = 1.00

Response Time : 10msec to any change in Temperature

Emissivity : 0.100 ~ 1.000

Signal processing : peak hold, valley hold, average

Retransmission : 4-20/0-20mA (scale able)

Alarm : 2 set points with potential free contacts 5 Amp

Calibration Offset : 0-100 °C

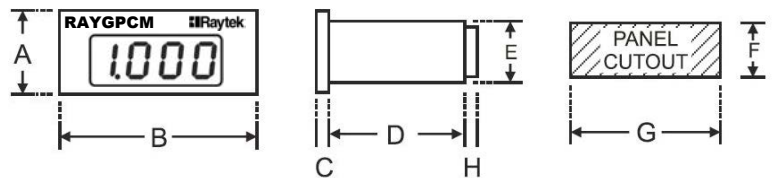
Digital Output : RS485 (2-wire)

Auxiliary Power : 110-230V ACstance

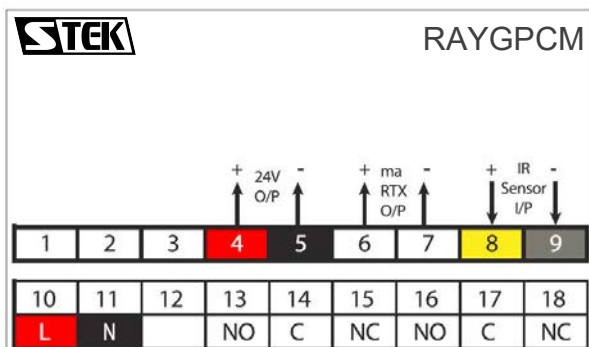
Output Power : 24 VDC

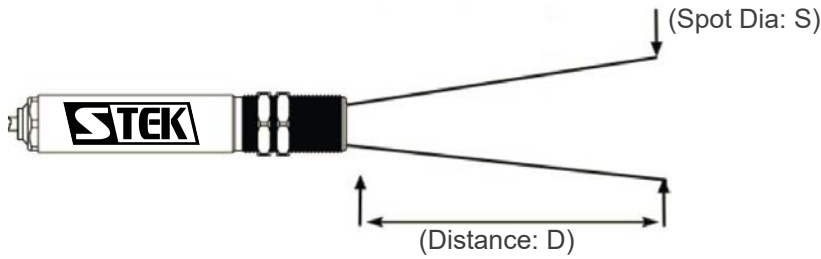
Output Power Current : max. 100 mA

Size : 48 x 96 mm



Dim	A	B	C	D	E	F	G	H
Model	48	96	10	45	43	44	92	9
RAYGPCM	48	96	10	45	43	44	92	9

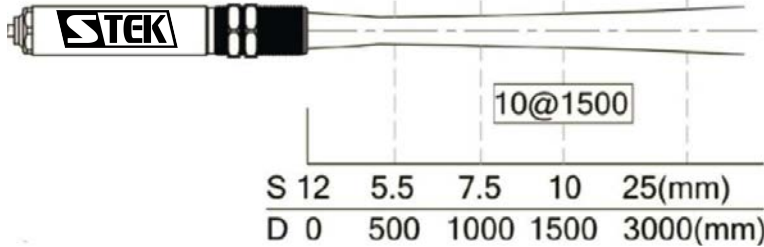




D : Distance between sensor lens and object of Temperature Measurement
 S : Diameter of spot area of which Temperature is Measured
 NOTE: Ensure that object of which temperature needs to be measured only occupies the spot diameter

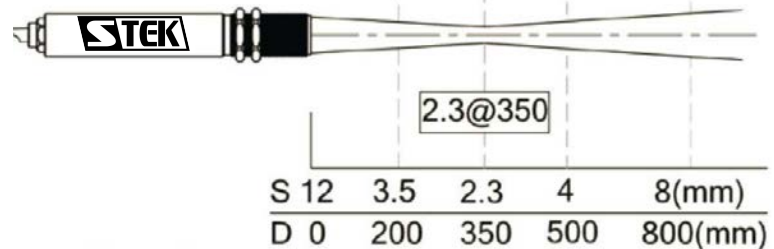
RAYMI3MSF, D:S = 60 : 1, FAR FIELD D:S = 40 : 1

S 12 9 16.5 25 60(mm)



RAYMI3MCF, D:S = 60 : 1, FAR FIELD D:S = 15 : 1

S 12 8 5.8 9 20(mm)

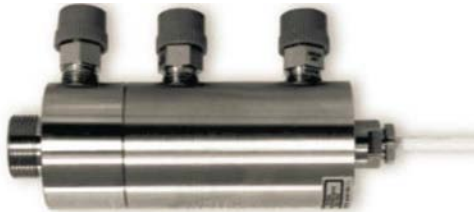


RAYMI1MSF, D:S = 150 : 1, FAR FIELD D:S = 80 : 1
 RAYMI2MSF

RAYMI1MCF, D:S = 150 : 1, FAR FIELD D:S = 30 : 1
 RAYMI2MCF



Lens Air Purge Collar



Water/Air/Nitrogen Cooling Jacket



Adjustable Bracket



Quartz Protective Window



IP65 Junction Box

