

Heat Spy® Monitor R10 Series Compact Fixed Infrared Sensor

Need to measure a small target accurately? Too hot to get close? Only one infrared product can solve these problems - the Wahl R10 Heat Spy! Get a more accurate measurement at a safer distance with confidence!

R10 FEATURES and SPECIFICATIONS

- Impressive Accuracy
- · Compact integrated sensor easy to install
- Temperature Range from 0° to 500°C (32° to 932°F)
- · Linear 4-20mA analog output
- D:S: 20:1
- IP65 (NEMA 4)
- · Constructed of 304 Stainless Steel
- 24V DC Power

Model Definition							
Model	Output	Wiring	Connection Cable Length				
R10A	4 20m A	24 AWG. Shielded 2 Conductor, PVC Insulated	5 feet (1.5m)				
R10A-10	4-20mA		10 feet (3.0m)				

Measuring Specifications					
Range	0° to 500°C, 32° to 932°F				
D:S Ratio	20:1				
Spectral Range	8 – 14 μm				
Accuracy	0° to 500°C: ± 1% of reading or ± 2°C, whichever is greater				
Repeatability	1% or ±1°C				
Response Time	500 mS				
Emissivity	0.95 fixed				

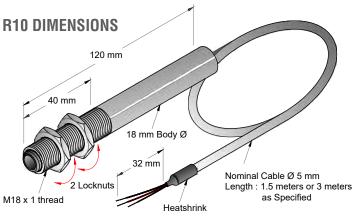
APPLICATIONS

Asphalt Paint Baking Paper

Coatings Pharmaceutical Chemicals **Plastics**

Drying/Curing Printing and Laminating Food Research and Development

Minerals **Textiles and Carpet**



Extremely Accurate Compact Industrial Infrared Thermometer! Designed and Built in Asheville, North Carolina - USA!



Sensor Specifications						
Ambient Temperature	0° to 70°C (32° to 158°F)					
with Air Cooling	0° to 90°C (32° to 194°F)					
with Water Cooling	0° to 200°C (32° to 392°F)					
Storage	-20° to 70°C (-4° to 158°F)					
Relative Humidity	10% - 95% non-condensing					
Protection Class	IP65 (NEMA 4)					
Shock & Vibration	MIL-STD-810D					
Housing Material	304 Stainless Steel					
Dimensions	18mm Dia. x 120mm (0.7 x 4.75 in) / Thread: M18 x 1					
Weight	270 g (9.52 oz)					

Optical Specifications

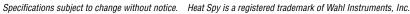
Distance (mm)	0	200	400	600	800	1000	
Target (mm)	8.9	10	20	30	40	50	
R10						D:S 20:1	
Distance (in)	0	8	16	24	32	40	
Target (in)	0.35	0.4	0.8	1.2	1.6	2	











IP65 COMPLIANT

R10 Compact Infrared Ordering Guide

THERMOPILE MODELS - Step 1 - Select: Model

Compact Infrared Sensor, 8 to 14 µm, 0° to 500°C (0° to 932°F), 4-20mA Analog Output, 1.5 meter (5 ft) Cable, Certificate of Conformance, User Manual

R10A-10 Compact Infrared Sensor, 8 to 14 µm, 0° to 500°C (0° to 932°F), 4-20mA Analog Output, 3 meter (10 ft) Cable, Certificate of Conformance, User Manual

Add Accessories below as desired, list as separate line items

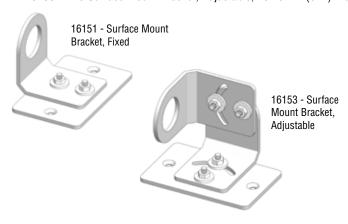
R10 Compact Infrared Accessories

SURFACE MOUNT

R10 Surface Mount Brackets:

16151 - R10 Surface Mount Bracket, Fixed, 18.25mm (0.7") Dia.

16153 - R10 Surface Mount Bracket, Adjustable, 18.25mm (0.7") Dia.



AIR/WATER COOLING JACKET R10 Air/Water Cooling Jacket:

16180 - R10 Air/Water Cooling Jacket - 31.75mm (1.25") Diameter by 114.3mm (4.50") Long, with 2, 1/8" FNPT Fittings.



For a detector installed in a very hot environment a cooling jacket is used to cool the electronics.

AIR PURGE

R10 Compact Air Purge Collar:

16171 - R10 Air Purge Collar, M18x1 Threads, Outside Diameter 30mm (1.18")



An Air Purge is used to eliminate dust, dirt, heat, fumes or vapors from the front of the optical head, and to keep the lens clean.

POWER SUPPLY

Power Supply:

16116 - Compact AC/DC Power Supply, 24V, 31W 16117 - AC/DC Power Supply, 24V, 25 to 150 W



