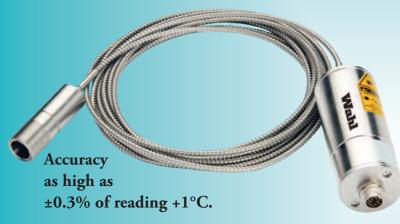
HEAT SPY® MONITOR FIXED INFRARED SENSORS

NEW! Heat Spy Monitor Fixed Infrared Sensors from Wahl Instruments! Infrared temperature sensors offer quick and easy integration into process measurement and control systems for fast, accurate, and reliable temperature measurement of your process.

Specifically designed for easy maintenance and high performance in harsh industrial environments, and temperature ranges from 32° to 5792°F (0° to 3200°C).



Quality stainless steel housings and accessories protect units even in extreme conditions.

Functions in high ambient temperatures on most models up to 482°F (250°C) with fiber optics, or up to 392°F (200°C) with optional water cooling jacket.

Wahl fixed infrared sensors are used for temperature measurement on a variety of materials such as: Aluminum, Plastics, Fluids, Rubber, Ceramic, Wood, Glass, Metals, Steel, and Textiles; and in many applications such as: Induction Heating, Annealing, Welding, Sintering, Melting, Rolling Mills, Rotary Kilns, Casting, and Forging.

Included user friendly software allows setting of response time, peak measurement, and emissivity



for maximum flexibility of applications.

Various output options are allow you to convert your temperature measurements into an electrical signal. Select from 4-20mA, 0-20mA, 1-10V, RS232, RS485, and USB, enabling you to more effectively monitor your process.

We are proud to provide the finest sensors from our Asheville, NC location. We are an ISO certified company, assuring our processes result in a top quality product.

Our Customer Service Department is ready to answer your questions and help you select the right sensor for your application. We can assist you in determining the best product to fit your

process, for years of reliable performance.



Complete specifications available online

Wahl Heat Spy Monitors are available from:

www.palmerwahl.com sales@palmerwahl.com 1-800-421-2853 PALMER Value INSTRUMENTATION GROUP

Continued Innovation Since 1836 ISO9001:2008 CERTIFIED

M45 Series • Fiber Optic Sensors



Wahl's M45 digital fiber optic infrared sensors are

highly accurate sensors, specially designed for applications under harsh conditions. Standard and two-color models can be used in areas with high ambient temperatures (up to 250°C) without cooling, or in areas where strong electromagnetic interference can influence a correct measurement.

Main parameters such as emissivity and response time an be adjusted via PC.







- Analog Output 4-20mA, 0-20mA, or 0-10V
- Digital Interface RS232 or RS485
- Fiber Optics and Optical Head withstand up to 250°C Ambient
- High Optical Resolution
- Laser Targeting Light
- Datalogging with included Software
- Very Good Stability
- Peak Picker

Note: Response time can be adjusted on most models. Accessories are not CF

Fiber Optic Sensors with Fiber Optic Head and Sighting Option							
Sighting	Spectral	Accuracy	Response Time	Distance to Spot			
	Range			40:1 or 80:1	100:1 or 180:1		
Laser Sighting	1.6 µm	±0.3%	2 mS	300° to 1800°C 572° to 3272°F			
	1 µm	Rdg +1°C			750° to 2500°C 1382° to 4532°F		
	0.7 to 1.15 µm Two Color	±0.5% Rdg +1°C	20 mS	800° to 2500°C 1472° to 4532°F	1000° to 3200°C 1832° to 5792°F		
No Sighting	1 μm	±0.3% Rdg +1°C	250 mS		600° to 1800°C 1112° to 3272°F		
			20 mS		600° to 1800°C 1112° to 3272°F		
	0.7 to 1.15 µm Two Color	±0.5% Rdg +1°C			750° to 3200°C 1382° to 5792°F		
			20 mS		800° to 2500°C 1472° to 4532°F		

M35 Series • Standard Sensors with Laser or Thru the Lens Sighting



The M35 Series high accuracy digital infrared sensors provide high performance and low maintenance of noncontact temperature measurement. The emissivity, analog output sub-range or response time and peak picker can be preset at the factory or adjusted through software. This enables the instruments to be adapted to various measuring tasks. These infrared sensors have a solid Stainless Steel housing which provides reliability and safety even in harsh industrial environments. A variety of

optics with fixed focus can be easily used in all industrial areas.







- High Accuracy
- Fully Digital
- High Optical Resolution
- Analog and Digital Output
- Rugged Stainless Steel Housing
- User Friendly Software

Standard Sensors with Standard Head and Sighting Option								
Sighting	Spectral Range	Accuracy	Response Time	Distance to Spot				
				50:1	100:1	200:1		
Laser Sighting or Thru the Lens Sighting	1.6 µm	±0.3% Rdg +1°C	2 mS	260° to 1400°C 500° to 2552°F	300° to 1300°C 572° to 2372°F	350° to 1800°C 662° to 3272°F		
	1 μm				600° to 1900°C 1112° to 3452°F	750° to 2500°C 1382° to 4532°F		
	0.7 to 1.15 µm Two Color	±0.5% Rdg +1°C	20 mS	600° to 1800°C 1112° to 3272°F	800° to 2500°C 1472° to 4532°F	1000° to 3200°C 1832° to 5792°F		

Note: Response time can be adjusted on most models.

Accessories are not CE.

Complete specifications and accessories online

M35 Series • Standard Sensors with Laser Sighting



Wahl's M35 Series are high accuracy digital infrared sensors which provide high performance and low maintenance of non-contact temperature measurement. The emissivity, analog output sub-range or response time and peak picker can be preset at the factory or adjusted through software. This enables the instruments to be adapted to various measuring tasks. These infrared sensors have a solid Stainless Steel housing which provides reliability and safety even in harsh industrial environments. A variety of optics with fixed focus can be easily used in all industrial areas.

- High Accuracy
- Fully Digital
- High Optical Resolution
- Analog and Digital Output
- Rugged Stainless Steel Housing
- User Friendly Software
- Fast Response Time
- Very Good Stability

Standard Sensors with Standard Head and No Sighting								
Sighting	Spectral	Accuracy	Response	Distance to Spot				
Signing	Range	моситасу	Time	50:1				
Laser Sighting	8 to 14 µm	±1.5% Rdg or 3.6°F (2°C)	60 mS	0° to 1000°C 32° to 41832°F				

Note: Response time can be adjusted on most models. Accessories are not CE.







M30 Series • Compact Sensors • Low Temperature



- Small and robust infrared sensor
- 2 wire installation
- High Optical Resolution
- Fast response time
- Easy electrical and mechanical installation
- Linear 4-20mA output
- IP65 Splash Proof

Wahl's M30 sensor is a highly accurate, compact stationary infrared sensor with 2 wire connection, used for non-contact temperature measurement of non metallic surfaces or painted, coated or anodized metals.

The small housing dimensions enable the integration of the instrument into compact production machines. The solid and robust design of the instrument guarantees reliability even in tough industrial environments. The built-in air purge unit protects the lens from contamination of dust and moisture, enabling the instrument to be adapted to various measuring tasks.







Compact Sensor with Standard Head and No Sighting							
Sighting	Spectral	Accuracy	Response	Distance to Spot			
Signing	Range		Time	12:1			
No Sighting	8 to 14 µm	±2% Rdg or 1°C	300 mS	0° to 400°C 32° to 752°F			

Note: Response time can be adjusted on most models. Accessories are not CE.

Complete specifications and accessories online

M20 Series • Optical Head Sensors with Display



Wahl's M25 Series feature an extended optical head for non-contact temperature measurement on metals, ceramics, graphite, etc. The sensor head is unaffected by electromagnetic interferences (e.g. induction). Equipped with a display which shows the current temperature in measuring mode, parameters can be read and changed via integrated keys. The infrared sensor can be powered through the USB port of a laptop computer with no external power supply required. Analog output is 4-20mA, with optional 0-20mA, 0-10V, user selectable. RS485 Serial interface is available as an option.









Keypad or Interface.

• Optional Isolated RS485 or USB 2.0 Interface

Optical Head Sensors with Standard Head, Optional Sighting and Display								
Sighting	Spectral Range	Accuracy	Response Time	Distance to Spot				
				2:1 or 15:1	20:1	40:1	80:1	
LED or Laser Sighting	1.6 µm	±0.3% Rdg +1°C	10 mS		250° to 1300°C 482° to 2372°F	300° to 1300°C 572° to 2372°F	350° to 1800°C 662° to 3272°F	
	1 µm						600° to 1900°C 1112° to 3452°F	
LED Sighting	0.7 to 1.15 µm Two Color	±0.5% Rdg +1°C	20 mS				800° to 2500°C 1472° to 4532°F	
No Sighting	8 to 14 µm	±1.5% Rdg or +2°C	60 mS	0° to 800°C 32° to 1472°F				

Note: Response time can be adjusted on most models. Accessories are not CE.

M15 Series • Sensors with Coaxial Laser Sighting



Sensor Head

displays. With 1% full span accuracy, and robust housings, these units can be integrated into your process to monitor for critical temperature deviations. The M15 units come standard with 4-20mA and relay

The M15 Series feature standard heads and oversized

output, making them easy to add to most control circuits. P65

Adjustable Emissivity 0.1 to 1.0

High-Low Alarm with Control Box

Parameters Adjustable via Keypad

Audible Over-Limit Alarm

Linear 4-20 mA Output

• Built-in LED Display

Max Value

• 2 Relay Outputs

• RS485 Output

Sensors with Standard Head, Coaxial Laser Sighting and Control Box							
Sighting	Spectral Range	Accuracy	Response Time	Distance to Spot			
				30:1	80:1		
Coaxial Laser Sighting	8 to 14 μm	±1% of Full Span	500 mS	0° to 1200°C 32° to 2192°F			
	1.6 µm		200 mS		400° to 1200°C 752° to 2192°F		

Digital version of catalog may differ from printed version.

Complete specifications and accessories online