

High Temperature with Bluetooth® and Datalogging

DHS520L High Temperature Infrared with Bluetooth® and Datalogging



The DHS520L features a 2-position trigger which takes and stores temperature readings.

Close-up Lenses (Optional)
Allow temperature measurement of small targets at close range.

Model L-110 - Lens has a fixed focus at 215mm/8.5in, with a minimum target size of 0.4mm/0.016in. A typical application for this lens is hot filament/wire observation.

Model L-135 - Lens has a focus range of 450mm/17.7in to 620mm/24.4in, with a minimum target size of 1.8mm/0.07in. A typical application for this lens is calibration on small aperture furnaces.

Features & Benefits

Standard Bluetooth and USB Connectivity - for communicating straight to a mobile device or PC.

Rugged instrument casing - withstands harsh environments for extended periods. Protected against high temperatures as well as bumps and drops.

Built in Route Mode - Consistently execute pre-configured routes to ensure accurate readings and long term data trending.

Data Logger Software - data trending and analysis to identify on-site trends, improve process efficiency or protect assets and prolong their life cycles.

Internal Data Logging up to 9999 readings and 4 routes - Onboard storage for single handed operation without the need for a separate storage device

The Wahl DHS520L1 and DHS520L2 Series Heat Spy® models are high precision portable infrared thermometers, designed for accurate high temperature measurement in the range of 1122° to 5432°F (600° to 3000°C).

Features include Bluetooth® serial communications, optional data logger software on Mobile Phone or PC/Laptop, precise view of target spot with simultaneous digital display of temperature in the viewfinder, choice of operating and calculating modes, digital output and out of range alarms.

The measured temperature is displayed in four simultaneous modes: continuous, average, max, and min, with user selected mode for the viewfinder display. Temperature measurement resolution to 1°.

Accurate sighting is ensured by the clear, wide angle (9°) field of view and small, clearly defined (1/3°) measurement area. Focusing is variable from 1m to infinity, with close focus options available using auxiliary lenses. Data Logger Software allows you to connect to a mobile device and view, analyze and record live temperature readings.

Model Number	DHS520L1	DHS520L2
Neutral Density Filters	1 Internal Eye Protection Filter	2 Internal Eye Protection Filters for High Temperature applications
Temperature Range	1122° to 5432°F (600° to 3000°C)	
Data Storage	Internal storage of up to 9999 readings, including date & time stamp. Also, 9 routes of up to 99 readings per route.	
Software	Free PC and mobile software for logging, stored data retrieval and route management. Call for Customer Service for info.	
Data Logging	Wireless Bluetooth® or USB connection to PC / Laptop / Mobile with optional Data Logging Software.	
Data Logging Modes	Single, Latch, Burst and Route	
Spectral Response	1 µm with advanced spectral filtering	
Emissivity Adjustment	0.10 to 1.20 in 0.01 step graduations	
Response Time	30 ms	
Display Update Time	0.5 seconds	
Accuracy	< 0.25% (K) of reading	
Measurement Resolution	0.1°C / 1°F	
Field of View	180:1 Circular, , 4:1 with optional closeup lens	
Repeatability	≤ 1°C / 2°F	
Operating Temp Range	32° to 122°F (0° to 50°C)	
Measuring Mode	CONTINUOUS, PEAK, AVG, MAX & MIN	
Optical System	9° Field of View with 1/3° (180:1 to 98% measurement energy) area. Eyepiece adjustable: -3.75 to +2.5 diopters	
Focusing Range	1 m / 39.3 in. to infinity. 450 to 620 mm / 17.7 to 24.5 in. and 215 mm / 8.5 in. fixed focus - with optional close-up lens	
Minimum Target Size	5 mm at 1 m / 0.19 in. at 39.3 in. 1.8 mm / 0.07 in. and 0.4 mm / 0.016 in. - with optional close up lens	
Output	Bluetooth® / USB	
Power Supply	1 9V Battery or USB	
Dimensions / Weight	8.25 x 2.75 x 5.5 inches (210 x 70 x140mm) / 0.83 kg/1.8 lb	
Included Accessories	Industrial Rubber Casing; Protective Thermal Cover; Lens Cap; Lens Protection Hood; Wrist Strap; USB Cable; 1 9V Battery; User Manual	
Optional Accessories	Waterproof Carrying Case; Close-up Lenses; Long Eye Relief Adaptor; Shoulder/Neck Strap	

Applications

- Glass: Melt Furnace/Tank, Glass Containers
- Glass Forming: Lamp/ Bulb producers, Pharmaceutical Vials, Sealing (auto, comm., residential)
- Steel: Coke Plant, Casting, Rolling Mill, Re-Heat Furnace
- Metal Processing: Forging, Casting, Stamping, Cladding
- Ceramics
- Heat Treatment
- Petro-Chemical
- Refractories
- Semi-Conductors



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