

APPLICATIONS

- Crop water stress studies
- Irrigation management
- Crop variability studies
- Truthing thermal imagery

SPECIFICATIONS

Scale Range: -40°C to 100°C

Resolution: 0.1°C

Accuracy: ±0.5°C

Repeatability: ±0.1°C

Temperature: All Functions in °C corresponding to voltage out

Noise Effective Temperature: ±0.2°C

Optical Configuration: Robust, Aerospace-Quality, Double-Coated Zinc Selenide Optics

Spectral Pass Band: 8 < Wavelengths < 14 Microns

Sighting: Line of Sight

Field of View: Standard: 4° or 15°

Operating Environment: -10°C to 70°C up to 99% Relative Humidity, Non-Condensing

Storage Temperature: Same as Operating Environment Temperature

Response Time: 0.10 Second

Emissivity Compensation: Settable from 0.2 to 0.98

Operating Distance: 2 cm to 300 meters

Power Requirements: Nickel Cadmium Rechargeable Batteries

Output Signal: Standard: RS-232C. Optional: Analog Millivolt (10.0mV/°C)

Warranty: One Year Limited Warranty on Parts & Labor

Low-Temperature Portable Infrared Thermometer

Model 100.3ZL

The low-temperature, Model 100.3ZL measures temperatures from -40°C to 100°C with ±0.5°C accuracy. This model has an optical configuration of robust aerospace-quality, double coated Zinc Selenide lenses. It measures in the spectral pass band of 8 < Wavelengths < 14.

Field of Views of 4° or 15° are available customer choice at time of ordering. FOV of 4° is 1 metre wide at 20m distance, FOV of 15° is 1 metre wide at 2m distance. FOV 4° is the most common choice for water stress studies of a crop canopy. The response time of the instruments is less than 0.10 second. Emissivity is settable from 0.2 to 0.98.

Rechargeable Nickel Cadmium batteries provide the power source. The standard output signal is RS-232C and the optional signal is analog millivolt (10mV/ °C).

The Model 100.3ZL is used mainly for measurements in the natural environment and for research studies.

Key Features:

- Portability
- Ideal for research and natural applications
- Stainless Steel Case
- Rechargeable Nickel Cadmium Batteries
- 40 Hours of Continuous Use



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