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

Linearity: ±0.3°C

Temperature: All Functions in °C corresponding to voltage out

Noise Effective Temperature: <0.1°C

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

Spectral Pass Band: 8 < Wavelengths < 14 Microns

Sighting: Intra-optical Light Sighting: Visible light illuminates field of view

Field of View: variable from 4° to 20°

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

Storage Temperature: Same as Operating Environment Temperature

Response Time: <1 Second

Emissivity Adjustment: Settable from 0.1 to 0.99

Operating Distance: 2 cm to infinity

Power Requirements: Nickel Cadmium Rechargeable Batteries

Output Signal: Analogue millivolt (10.0mV/°C)

Warranty: One Year Limited Warranty on Parts & Labour

Low-Temperature Portable Infrared Thermometer

Model 6110.4ZL with Variable Focus and Temperature Differential

The low-temperature, Model 6110.4ZL 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.

The **variable focus with light sighting** of the Model 6110.4ZL makes it a revolutionary portable Infrared Thermometer. The Model 6110.4ZL also has the **Dry Bulb temperature and Temperature Differential** features as agronomists have requested.

The AGRI-Therm II incorporates through the lens Intra-Optical Light Sighting System. A visible light illuminates the exact Target area being measured. The pattern of the detector is projected in order to see its exact size, position and texture on the target, thereby offering a three-dimensional measurement of the target. The lighting system uses a safe Light Emitting Diode and not a laser. The field of view is continuously variable from 4° to 20° for optimum coverage of various targets. The Model 6110.4ZL also measures the temperature differential between target surface temperature and ambient air temperature and it also measures dry bulb ambient air temperature in real time.

Users can select to measure the:

- Infrared target temperature
- Ambient Dry Bulb Air temperature
- Differential between the two

It is measure mode selectable

Rechargeable Nickel Cadmium batteries provide the power source.

The standard output signal is analogue millivolt (10mV/ °C).

The Model 6110.4ZL is used mainly for measurements in the natural environment and for research studies.

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