





# Compatible Thermistor & Temperature Sensors

## Temperature (Thermistor) Sensors - Use with TRM (Thermistor Sensor Meter)

### Therm-SS



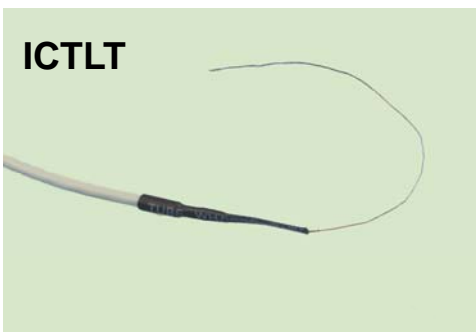
- Thermistor strings available
- Stainless steel embodied thermistor. Standard cable lengths: 5m, 30m, 50m. Custom lengths available.
- Measurement range: - 50 to 105° C
- Accuracy:  $\pm 0.05^\circ$  C
- Resolution: 0.01° C

### Therm-EP



- Thermistor strings available
- Epoxy embodied thermistor. Standard cable lengths: 5m, 30m, 50m. Custom lengths available.
- Measurement range: - 40 to 80° C
- Accuracy:  $\pm 0.05^\circ$  C
- Resolution: 0.01° C

### ICTLT



- Micro scale measurements of temperature
- Non-destructive sampling of leaf temperature
- Measurement range: - 40 to +125° C
- Accuracy:  $\pm 0.2^\circ$  C
- Resolution: 0.01° C

## Temperature (Voltage) Sensors - Use with TSM (Temperature Sensor Meter)

### 4000L



- Everest Interscience Infrared Sensor
- Highly accurate with automatic corrections based on subject radiation and sky radiation.
- Measurement range: - 40 to +100° C
- Accuracy:  $\pm 0.5^\circ$  C
- Resolution: 0.1° C

Note: TSM can also measure solar radiation or PAR radiation of the crop canopy at the same time as Infrared temperature.



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# TSM Specifications

| TSM Logging                        |  | Features  |  |
|------------------------------------|--|---|--|
| <b>Analogue Channels</b>           | 5 differential or 10 single ended  | <b>Power Management</b>   |  |
| <b>Resolution</b>                  | 0.00001V-24-Bit  | <ul style="list-style-type: none"> <li>• Internal Lithium-Polymer Battery</li> <li>• Power On/Off Switch</li> <li>• Internal Voltage Regulation</li> <li>• Optical Isolation Lightning Protection</li> </ul>  |  |
| <b>Accuracy</b>                    | 0.001V   | <b>Logging</b>  |  |
| <b>Minimum Logging Interval</b>    | 1 second   | <ul style="list-style-type: none"> <li>• Stand-Alone Logging</li> <li>• 24-Bit Resolution</li> <li>• MicroSD Expandable Memory</li> <li>• USB Connectivity</li> <li>• Wireless Data Transfer</li> <li>• IP6 ,QWUXVLRQ5DWLQJ</li> <li>• Free Windows Utility Configuration Software</li> </ul> |  |
| <b>Delayed Start</b>               | Suspend Logging, Customised Intervals  | <b>Applications</b>   |  |
| <b>Sampling Frequency</b>          | 10Hz   | <ul style="list-style-type: none"> <li>• Plant physiology (leaf and canopy temperature)</li> <li>• Soil, air and fluid temperature</li> <li>• Thermistor strings for borehole monitoring</li> </ul>   |  |
| Data                               |  | Accessories   |  |
| <b>Communications:</b>             | USB, Wireless Radio Frequency 2.4 GHz  | <ul style="list-style-type: none"> <li>• MCC</li> <li>• Quad Band GPRS, GSM, 3-G CDMA Modem</li> </ul>  |  |
| <b>Data Storage</b>                | MicroSD Card, SD, SDHC & SDXC Compatible (FAT32 Format)  |   |  |
| <b>Software Compatibility</b>      | Windows ViVta 7  |   |  |
| <b>Data File Format</b>            | Comma Separated Values (CSV) format for compatibility with all software programs   |   |  |
| <b>Memory Capacity</b>             | 8WR7LFUR6FDUGLE05HG  |   |  |
| Operating Conditions               |  |   |  |
| <b>Temperature Range</b>           | -40°C to +80°C   |   |  |
| <b>R/H Range</b>                   | 0 -100%  |   |  |
| <b>Upgradable</b>                  | User upgradeable firmware using USB boot strap loader function   |   |  |
| Power                              |  |   |  |
| <b>Power supply</b>                | V DC 2-wire non polarized bus  |   |  |
| <b>Power Consumption</b>           | 20 mA  |   |  |
| <b>Internal Battery Monitoring</b> | Logging internal battery voltage & charging current  |   |  |
| <b>Charging Rate</b>               | Automatic variable rate of charging to maximise solar panel charging current on full sun days and or under low light cloudy conditions.<br><br>Variable current 0 mA to 200 mA |   |  |



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