

SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply.

| INTERNAL CHANNELS | |
|------------------------|-------------------------------------|
| Temperature Range | -20 °C to +60 °C (-4 °F to +140 °F) |
| Temperature Resolution | 0.01 °C (0.018 °F) |
| Calibrated Accuracy | ±0.5 °C (0 °C to 50 °C) |

| REMOTE CHANNELS | | | |
|-----------------------------------|--------------------------------------|------------|-----------|
| Remote Channel Thermocouple Types | J, K, T, E, R, S, B, N | | |
| Thermocouple Connection | Female subminiature (SMP) | | |
| Cold Junction Compensation | Automatic, based on internal channel | | |
| Thermocouple | Range (°C) | Resolution | Accuracy* |
| J | -210 to +760 | 0.1 °C | ±0.5 °C |
| K | -270 to +1370 | 0.1 °C | ±0.5 °C |
| T | -270 to +400 | 0.1 °C | ±0.5 °C |
| E | -270 to +980 | 0.1 °C | ±0.5 °C |
| R | -50 to +1760 | 0.5 °C | ±2.0 °C |
| S | -50 to +1760 | 0.5 °C | ±2.0 °C |
| B | +50 to +1820 | 0.5 °C | ±2.0 °C |
| N | -270 to +1300 | 0.1 °C | ±0.5 °C |

*Thermocouple accuracy specified with 24 AWG diameter thermocouple wires.

| MAXIMUM EXPOSURE TIME | |
|-----------------------|-----------------------------|
| Ambient Temperature | Maximum Duration in Minutes |
| 100 °C (212 °F) | 110 |
| 150 °C (302 °F) | 62 |
| 200 °C (392 °F) | 45 |
| 250 °C (482 °F) | 35 |
| 260 °C (500 °F) | 33 |
| 300 °C (572 °F) | 30 |
| 350 °C (662 °F) | 25 |

| GENERAL | |
|--------------------------------|---|
| Start Modes | Push button start and software programmable immediate start or delay start up to six months in advance |
| Memory (all channels enabled) | 4-channel: 524,032 readings per channel 8-channel: 262,016 readings per channel |
| LEDs | 1 per channel and 2 status LEDs |
| Reading Rate | 4 Hz up to 1 reading every 24 hours |
| Calibration | Digital calibration through software |
| Calibration Date | Automatically recorded within device |
| Battery Type | 9 V lithium battery included, user replaceable |
| Battery Life | 18 months typical |
| Data Format | Date and time stamped °C, °F, K, °R, mV, V |
| Time Accuracy | ±1 minute/month |
| Computer Interface | USB-A to micro USB cable (included); 460,800 baud |
| Operating System Compatibility | Windows XP SP3 or later |
| Software Compatibility | Standard Software version 4.2.17.0 or later Secure Software version 4.2.16.0 or later |
| Internal TCTempX | -20 °C to +60 °C 0 %RH to 95 %RH non-condensing |
| ThermoVaultX System | -20 °C to +350 °C 0 %RH to 95 %RH non-condensing |
| Dimensions | 12.3 in x 6.65 in x 2.45 in (312 mm x 168 mm x 62 mm) <i>[Includes handles, brackets and front enclosure latches]</i> 9.1 in x 5.9 in x 2.45 in (231 mm x 149 mm x 62 mm) <i>[Enclosure case only. Excludes handles, brackets and latches]</i> |
| Weight | 4-channel: 8.85 lb (4.01 kg) 8-channel: 8.98 lb (4.07 kg) |

BATTERY WARNING: BATTERY MAY LEAK, FLAME OR EXPLODE IF DISASSEMBLED, SHORTED, CHARGED, CONNECTED TOGETHER, MIXED WITH USED OR OTHER BATTERIES, EXPOSED TO FIRE OR HIGH TEMPERATURE. DISCARD USED BATTERY PROMPTLY. KEEP OUT OF REACH OF CHILDREN.

The included USB cable and power adapter should not be used at temperatures above 40 °C.