



MicroLog Solution

Specifications

| MicroLog Solution Models | | Output | MicroLab Software |
|----------------------------------|---|--|---|
| MicroLog EC600 | Temperature plus external sensor | <ul style="list-style-type: none"> • MicroLog Display: 2 digit 7-segment LCD • MicroLogPRO Display: 4 digit 7-segment LCD with decimal point | <ul style="list-style-type: none"> • Runs on Windows® 95/98/2000/XP/Vista • Fast data download from the MicroLog • Graphic visualization of the MicroLog data • Data displayed in graphs and tables • Data Export to EXCEL • Graphic analysis tools such as Markers, Zoom • Data Map allowing the users to easily see many MicroLog data loggers in one screen • MicroLog SETUP windows, for setting up the MicroLog sample rate, sensors and alarm level • MicroLog sensor calibration • Display of MicroLog battery level • Showing daily reports of a fleet of data loggers • Visual alarm levels on the graph and table |
| MicroLog EC650 | Temperature, relative humidity plus external sensor | | |
| MicroLogPRO EC700 | Temperature plus external sensors | Communication <ul style="list-style-type: none"> • MicroLog IR - interface to portable HP printer • RS232 communication to the PC with 19,200 kbps with MicroLog and MicroLogPRO • USB 1.1 (MicroLogPRO) | |
| MicroLogPRO EC750 | Temperature & humidity plus external sensors | | |
| Built-in Sensors | | Memory <ul style="list-style-type: none"> • MicroLog: 16,000 samples • MicroLogPRO: 1 sensor - 52,000 samples 2 sensors - 26,000 samples 3 sensors - 16,000 samples | |
| MicroLog Temperature | | | |
| Range: | -30 to 50 °C | Power Supply <ul style="list-style-type: none"> • Internal lithium battery: 3.6 V TL5902 • Battery life: Approximately 2 years (depending on sampling rate) | |
| Resolution: | 0.5 °C | | |
| Accuracy: | 0.6 °C | Sampling Rate User defined: From 1 every 10 seconds to 1 every two hours | |
| MicroLog Humidity | | | |
| Range: | 10 to 90 % | Dimensions <ul style="list-style-type: none"> • Thickness: 22.9 mm • Diameter: 72 mm • Weight: 55 gr | |
| Resolution: | 0.5 % | | |
| Accuracy: | ± 3 % | Standards <ul style="list-style-type: none"> • Water and dust proof IP65 standard compliance, for EC600 and EC700 models • CE and FCC standard compliance • FDA Title 21 CFR Part 11 Compliance | |
| MicroLogPRO Temperature | | | |
| Range: | -40 to 80 °C | Ordering Information | |
| Resolution: | 0.2 °C (-40 to -20 °C) 0.1 °C (-21 to 50 °C) 0.2 °C (51 to 80 °C) | | |
| Accuracy (all ranges): | ±0.2 °C | AC004 Infrared printer for data print-out | |
| Software calibration is possible | | 11199 Calibration certificate | |
| MicroLogPRO Humidity | | PC-KIT PC Kit (MicroLab Software CD and Com. Cable) | |
| Range: | 5 to 95 % | PC-KIT-750-USB PC Kit for EC750 (MicroLab software CD and Mini USB Com. Cable) | |
| Resolution: | 0.1 % | SFTMCL025A DatPass for MicroLab (DatPass software CD and USB security dongle) | |
| Accuracy: | ±2 % | | |
| Software calibration is possible | | | |

Microlog & MicroLogPRO Comparison Table

| | MicroLog | | MicroLogPRO | |
|----------------------|---|-------|---|---------|
| | EC600 | EC650 | EC700 | EC750 |
| Sampling resolution | 8-bit | | 10-bit | |
| Internal range | -30 to 50 °C/-22 to 122 °F | | -40 to 80 °C/-40 to 176 °F | |
| Temperature accuracy | ±0.6 °C / ±1.08 °F | | ±0.2 °C / ±0.36 °F | |
| Humidity accuracy | N/A | ±3 % | N/A | ±2 % |
| Resolution | 0.5 °C (-30 to -29 °C)/0.9 °F (-22 to -20 °F) 0.4 °C (-28 to -22 °C)/0.76 °F (-18 to -7 °F) 0.3 °C (-21 to 22 °C)/0.54 °F (-5 to 71 °F) 0.4 °C (23 to 32 °C)/0.76 °F (73 to 89 °F) 0.5 °C (33 to 39 °C)/0.9 °F (91 to 102 °F) | 0.5 % | 0.2 °C (-40 to -20 °C)/0.36 °F (-40 to 4 °F) 0.1 °C (-21 to 50 °C)/0.18 °F (-5 to 122 °F) 0.2 °C (51 to 80 °C)/0.36 °F (123 to 176 °F) | 0.1 % |
| Memory capacity | 1 sensor - 16,000 samples 2 sensors - 8,000 samples 3 sensors - 5,312 samples | | 1 sensor - 52,000 samples 2 sensors - 26,000 samples 3 sensors - 16,000 samples | |
| Sampling rate | Minimum - 1 per 10 seconds Maximum - 1 per 2 hours | | | |
| LCD display | Two digit, 7-segment LCD | | Four digit, 7-segment LCD with decimal point | |
| LCD units/icons | °C, °F, % RH, Ext | | °C, °F, % RH, pH, V, mA, AL-H, AL-L | |
| RS-232 | Cable connection to the PC with 19,200 kbps | | | |
| USB - optional | N/A | N/A | USB 1.1 Option for quantities over 200 units with low water & dust protection | USB 1.1 |
| Infrared printout | Minimum, maximum and duration up to 30 days Wireless report to portable thermal printer HP82240B | | Minimum, maximum and duration up to 30 days OR Real-time data print-out up to last 128 values OR Wireless report to portable thermal printer HP82240B | |
| Power supply | Internal Lithium battery 3.6 V, 1/2 AA, 1.2 AH | | | |
| Battery life | Approximately 24 months (may vary with number of sensors connected and the sampling rate settings) | | | |
| Dimensions | 72 mm diameter, 22.9 mm thickness | | | |
| Weight | 55 g | | 55 g | |