



# MicroLog Solution

## Specifications

MicroLog Solution Models		Output	MicroLab Software
MicroLog EC600	Temperature plus external sensor	<ul style="list-style-type: none"> <li>• <b>MicroLog Display:</b> 2 digit 7-segment LCD</li> <li>• <b>MicroLogPRO Display:</b> 4 digit 7-segment LCD with decimal point</li> </ul>	<ul style="list-style-type: none"> <li>• Runs on Windows® 95/98/2000/XP/Vista</li> <li>• Fast data download from the MicroLog</li> <li>• Graphic visualization of the MicroLog data</li> <li>• Data displayed in graphs and tables</li> <li>• Data Export to EXCEL</li> <li>• Graphic analysis tools such as Markers, Zoom</li> <li>• Data Map allowing the users to easily see many MicroLog data loggers in one screen</li> <li>• MicroLog SETUP windows, for setting up the MicroLog sample rate, sensors and alarm level</li> <li>• MicroLog sensor calibration</li> <li>• Display of MicroLog battery level</li> <li>• Showing daily reports of a fleet of data loggers</li> <li>• Visual alarm levels on the graph and table</li> </ul>
MicroLog EC650	Temperature, relative humidity plus external sensor		
MicroLogPRO EC700	Temperature plus external sensors	<ul style="list-style-type: none"> <li>• <b>Communication</b></li> <li>• MicroLog IR - interface to portable HP printer</li> <li>• RS232 communication to the PC with 19,200 kbps with MicroLog and MicroLogPRO</li> <li>• USB 1.1 (MicroLogPRO)</li> </ul>	
MicroLogPRO EC750	Temperature & humidity plus external sensors		
<b>Built-in Sensors</b>		<ul style="list-style-type: none"> <li>• <b>Memory</b></li> <li>• <b>MicroLog:</b> 16,000 samples</li> <li>• <b>MicroLogPRO:</b> 1 sensor - 52,000 samples 2 sensors - 26,000 samples 3 sensors - 16,000 samples</li> </ul>	
<b>MicroLog Temperature</b>			
Range:	-30 to 50 °C	<ul style="list-style-type: none"> <li>• <b>Power Supply</b></li> <li>• <b>Internal lithium battery:</b> 3.6 V TL5902</li> <li>• <b>Battery life:</b> Approximately 2 years (depending on sampling rate)</li> </ul>	
Resolution:	0.5 °C		
Accuracy:	0.6 °C	<ul style="list-style-type: none"> <li>• <b>Sampling Rate</b></li> <li>• <b>User defined:</b> From 1 every 10 seconds to 1 every two hours</li> </ul>	
<b>MicroLog Humidity</b>			
Range:	10 to 90 %	<ul style="list-style-type: none"> <li>• <b>Dimensions</b></li> <li>• <b>Thickness:</b> 22.9 mm</li> <li>• <b>Diameter:</b> 72 mm</li> <li>• <b>Weight:</b> 55 gr</li> </ul>	
Resolution:	0.5 %		
Accuracy:	± 3 %	<ul style="list-style-type: none"> <li>• <b>Standards</b></li> <li>• Water and dust proof IP65 standard compliance, for EC600 and EC700 models</li> <li>• CE and FCC standard compliance</li> <li>• FDA Title 21 CFR Part 11 Compliance</li> </ul>	
<b>MicroLogPRO Temperature</b>			
Range:	-40 to 80 °C	<ul style="list-style-type: none"> <li>• <b>Ordering Information</b></li> <li>AC004 Infrared printer for data print-out</li> <li>11199 Calibration certificate</li> <li>PC-KIT PC Kit (MicroLab Software CD and Com. Cable)</li> <li>PC-KIT-750-USB PC Kit for EC750 (MicroLab software CD and Mini USB Com. Cable)</li> <li>SFTMCL025A DatPass for MicroLab (DatPass software CD and USB security dongle)</li> </ul>	
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		
Software calibration is possible			
<b>MicroLogPRO Humidity</b>			
Range:	5 to 95 %		
Resolution:	0.1 %		
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	-40 to 80 °C/-40 to 176 °F (T), 0 to 100 % (RH)
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	