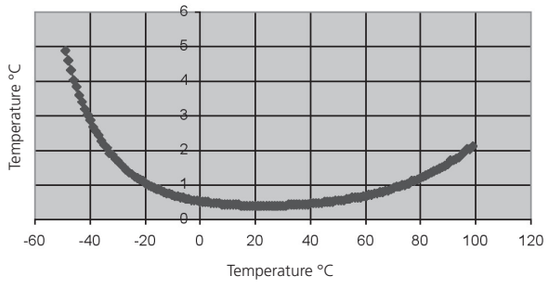
Temperature Sensor Resolution

The graph in Fig. 4 shows the sensor resolution for the full range of -50 to 100 °C. As you can see, the resolution is better than 1°C for most of the sensor's range. Below -30 °C the resolution deteriorates and reaches 5 °C at -50 °C.

Fig 4: External temperature sensor resolution



Warranty

FOURIER SYSTEMS warranties this product to be free from significant deviations in material and workmanship for a period of one year from date of purchase. If repair or adjustment is necessary and has not been the result of abuse or misuse within the warranted time period, please return – freight pre-paid – and correction will be made without charge. FOURIER SYSTEMS alone will determine if the product problem is due to deviations or customer misuse.

Out-of-warranty products will be repaired on a charge basis.

Return of items

Authorization must be obtained from your FOURIER SYSTEMS distributor before returning items for any reason. When applying for authorization, please include data regarding the reason the items are to be returned. For your protection, items must be carefully packed to prevent damage in shipment and insured against possible damage or loss. We will not be responsible for damage resulting from careless or insufficient packing. A restocking charge will be made on all unauthorized returns.

NOTE: We reserve the right to make improvements in design, construction, and appearance of products without notice.

Specifications

Range		
	MicroLog:	-50 to 100 °C (-58 to 212 °F)
	MicroLogPRO:	-50 to 110 °C (-58 to 230 °F)
Resolution		
	MicroLog:	Better than 1 °C between -20 to 75 °C
	MicroLogPRO:	Better than 0.3 °C between -30 to 90 °C
Accuracy (before calibration):		
	MicroLog:	2% of reading
	MicroLogPRO:	1 °C
Probe OD:		3.2 mm
Probe Length:		100 mm
Max Probe Temperature:		150 °C
Max Cable Temperature:		80 °C

Other Available External Sensors

pH Sensor	1 to 14 pH
Voltage Sensor	0 to 10 V
Current Sensor	0 to 20 mA

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External Sensor
TEMPERATURE
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ACCESSORIES

MicroLog

Sensor User Guide

MicroLog EC600 and EC650
MicroLogPRO EC700 and EC750

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External Temperature Sensor
DT132

The External Temperature sensor is one of 4 external sensors for the MicroLog and MicroLogPRO. The external sensor allows the data logger to measure a wider temperature range than the internal temperature sensor. The sensor has a rapid temperature response time, and due to its stainless steel tip, it is able to work in liquids as well as in light acids.

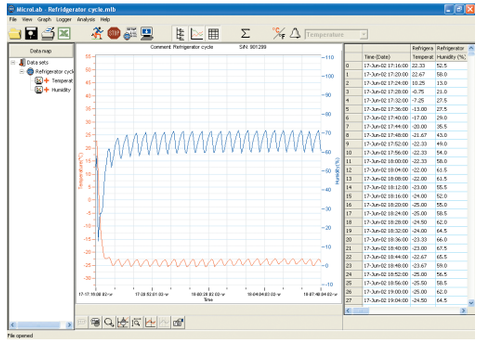

Fig. 1

MicroLab software

Windows 95/98/2000/ME/XP/Vista compatible. Data can be exported to any common spreadsheet.

The External Temperature sensor is compatible with all MicroLab software versions.

Selecting the External Temperature sensor using MicroLab software

1. Connect data logger to the PC using the communication cable.
2. Launch the MicroLab software.
3. Press the **Setup** button in the toolbar or select **Logger > Setup Logger** from the main menu to open the Setup window.
4. In the Setup window, select the **External** checkbox and from the drop-down menu select **Temp. -50 to 100 °C** (see Fig. 2).
5. Click **Send Setup**.
6. Connect the external sensor to the data logger to begin recording your data.

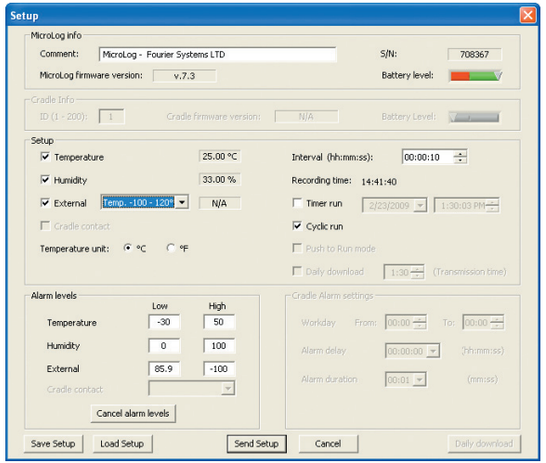

Fig. 2

Working with the MicroLog

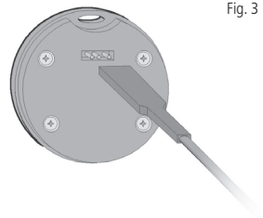

Fig. 3

Disconnect the communication cable from the MicroLog and insert the sensor connector cable in its place (Fig. 3). When measuring external temperature the MicroLog will display temperature reading on its LCD. It will also display a small EXT icon near the temperature reading, indicating that the reading is the external temperature. The LCD can display temperature readings in either °C or °F.

When downloading the data to your PC using the MicroLog software, the data will be displayed in either °C of °F. There is no need to select the external sensor before downloading the data.