DaqLab Software

The *DaqPRO* is then the perfect choice for remote data logging and ideal for use as a mobile measuring device in any industrial environment or for field off site monitoring.

Analysis Wizard
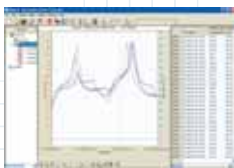Scientific Functions
Statistics

Sensor calibration

Online logger setup

Online graph & table view

Export to Excel

About Fourier Systems

Fourier Systems Ltd. is a worldwide leader of compact portable data logging devices and accessories for the industrial market. Fourier's robust line of advanced products is designed to automate and simplify daily data logging tasks. Beyond delivering quality products, Fourier is dedicated to providing sophisticated solutions that integrate the most advanced technologies. When it comes to professional data logging, leading companies around the world count on Fourier to provide them with the most up to date equipment.

Specifications

Inputs (DaqPRO 5300)

Selectable type for each input: 0 to 24 mA, 0 to 50 mV, 0 to 10 V, NTC, PT-100, Thermocouple, Pulse and frequency (Input 1 only)

0 to 24 mA
Range:	0 to 24 mA
Resolution:	4.76 µA
Accuracy:	±0.5 %
Loop impedance:	21 Ω

0 to 50 mV
Range:	0 to 50 mV
Resolution:	3 µV
Accuracy:	±0.5 %

0 to 10 V
Range:	0 to 10 V
Resolution:	200 µV
Accuracy:	±0.5 %
Input impedance:	125 KΩ

Temperature NTC
NTC:	10/100 KΩ resistor
Range:	-25 to 150 °C
Resolution:	0.05 °C
Accuracy:	±0.5 %

Temperature PT-100
Range:	-200 to 400 °C
Resolution:	0.1 °C (7 mΩ)
Accuracy:	-200 to -50 ±0.5 %
	50 to 400 ±0.5 %
	-50 to 50 ±0.5 °C

The DaqPRO offers up to 8 PT-100 2 wire channels or 4 PT-100 3 wire channels

Temperature Thermocouple J
Range:	-200 to 1200 °C
Resolution:	0.1 °C (1 µV)
Accuracy:	-200 to -50 ±0.5 %
	50 to 1,200 ±0.5 %
	-50 to 50 ±0.5 °C
Cold junction compensation error:	±0.3 °C

Temperature Thermocouple K
Range:	-250 to 1,200 °C
Resolution:	0.1°C (1µV)
Accuracy:	-250 to -50 ±0.5 %
	50 to 1,200 ±0.5 %
	-50 to 50 ±0.5 °C
Cold junction compensation error:	±0.3 °C

Temperature Thermocouple T
Range:	-200 to 400 °C
Resolution:	0.1 °C (1 µV)
Accuracy:	-200 to -50 ±0.5 %
	50 to 400 ±0.5 %
	-50 to 50 ±0.5 °C
Cold junction compensation error:	±0.3 °C

Internal Temperature
Range:	-25 to 70 °C
Resolution:	0.1°C (1 µV)
Accuracy:	±0.3 °C

Pulse Counter (Input 1 only)
Optocoupler input
Range:	0 to 65,000
Input signal:	0 to 5 V
Input impedance:	470 Ω
Bandwidth:	0 to 25 Hz

Frequency Meter (Input 1 only)
Optocoupler input
Range:	20 to 4,000 Hz

Input signal:	0 to 5 V
Input impedance:	470 Ω

General A to D Specifications
Noise:	30 µV rms
Internal linearity error:	±0.08 % of FSR
Offset error:	0.1 %

Open Collector Output (Output 8)
Maximum current sink:	50 mA (fuse protected)
Maximum input voltage:	5 V
Input impedance:	50 Ω

Communication
USB 1.1 compliant

Sampling
Capacity:	512 KB
Analog sampling rate:	Variable, 1 sample/hour to 4,000 samples/sec, 1 channel
Analog sampling resolution:	16-bit
Channel separation:	80 dB

Man Machine Interface
- Full keyboard operation - enables manual programming of the logger
- Graphic LCD 64 x 128 pixels

Power Supply
- Internal rechargeable 7.2V NiMH battery
- Built-in battery charger
- External 9 to 12 V DC input
- Battery life: 25 hours between charges

Operating Temperature Range
0 to 50 °C

Casing
Plastic ABS box
Dimensions:	182 x 100 x 28 mm
Weight:	450 gr

Standards Compliance
CE, FCC

DaqLAB Analysis Software

- Windows based software: 2000 SP3/2003/XP SP2/Vista Internet Explorer 5.01 or higher
- Fast data download from the DaqPRO
- Data displayed in numeric or graphical display forms
- Graphical analysis tools such as Zoom and Cursors
- Storage of selected data on disk files
- Hard copy printing of the collected data
- Direct data export to EXCEL
- On-line retrieval and display of data in real-time
- Incorporating data processing functions
- Setting up the DaqPRO
- Calibrating the DaqPRO
- Defining new sensors

Accessories

- Carrying case
- Solar cell and battery for field data logging
- Weather box complying with the IP-67 standard for protecting the DaqPRO while working in field applications