

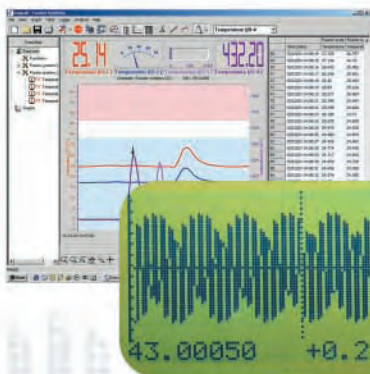
# DaqPRO™

The DaqPRO with its high resolution and fast Analog to Digital Converter (ADC) will meet the data logging requirements in most industrial applications. The ability to show measured values and to analyze them on its graphical display eliminates the need to download collected data to a computer for further analysis. The DaqPRO is the perfect choice for remote logging, and ideal for use as a mobile measuring device for the industrial environment.

## Applications

- Quality assurance
- Plant and machine condition monitoring
- Field monitoring stations
- Automotive testing
- HVAC
- Plant trouble-shooting
- Electricity transients fail detection
- Monitoring of environmental conditions
- Food, drugs and electronic equipment storage conditions
- Water quality testing
- Research

And more...



## 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:  
0-24 mA, 0-50 mV, 0-10 V, NTC, PT-100, Thermocouple, Pulse and frequency (Input 1 only)

#### 0-24 mA

Range:	0-24 mA
Resolution:	0.47µA
Accuracy:	±0.5%
Loop impedance:	21%

#### 0-50 mV

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

#### 0-10 V

Range:	0-10 V
Resolution:	200µV
Accuracy:	±0.5%
Input impedance:	125K½

#### Temperature NTC

NTC:	10/100K½ resistor
Range:	-25-150 °C
Resolution:	0.05°C
Accuracy:	±0.5%

#### Temperature PT-100

Range:	-200 -400 °C
Resolution:	0.1°C (7m½)
Accuracy:	-200 - -50 ±0.5% 50 - 400 ±0.5% -50 - 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 - 1200 °C
Resolution:	0.1°C (1µV)
Accuracy:	-200 - -50 ±0.5% 50 -1,200 ±0.5% -50 - 50 ±0.5°C
Cold junction compensation error:	±0.3°C

#### Temperature Thermocouple K

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

#### Temperature Thermocouple T

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

#### Internal temperature

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

#### Pulse Counter (Input 1 only)

Optocoupler input	
Range:	0-65,000
Input signal:	0-5 V
Input impedance:	470%
Bandwidth:	0-25 Hz

#### Frequency Meter (input 1 only)

Optocoupler input	
Range:	20-4,000 Hz
Input signal:	0-5 V
Input impedance:	470%

### General A to D specifications

Noise:	30µV rms
Internal linearity error:	±0.08% of FSR
Offset error:	0.1%

### Open Collector Output (Output 8)

Maximum current sink:	50mA (fuse protected)
Maximum input voltage:	5V
Input impedance:	50%

### Communication

USB 1.1 compliant

### Sampling

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

### Man Machine Interface

- Full keyboard operation - enables manual programming of the logger
- Graphic LCD 64x128 pixels

### Power Supply

- Internal rechargeable 7.2V NiMH battery
- Built-in battery charger
- External 9V-12V DC input
- Battery life: 40 hours between charges

### Operating Temperature Range

0-50 °C

### Casing

Plastic ABS box	
Dimensions:	182x100x28 mm
Weight:	450gr

### Standards Compliance

CE, FCC

### DaqLAB Analysis Software

- Running on Windows 95/98/2000/ME/XP and NT
- 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

### Ordering Information

Part number	Description
DaqPRO-5300	DaqPRO data logger, user manual, carrying case, AC/DC adapter
SFTDAQ001	DaqLab Windows analysis software, communication cable
DT177	Weather box
DT267	12V AC/DC adapter
DT180	USB communication cable

To order DaqPRO products and accessories:  
[www.fouriersystems.com](http://www.fouriersystems.com)