Committed to Quality

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DaqPRO™

All in one solution for data logging and analysis

DaqPRO provides truly independent data acquisition with full setup, data display and analysis all on the *DaqPRO* screen.

The *DaqPRO*™ is a portable, battery operated data acquisition and logging system offering 16-bits, high-resolution, 8 channel data logging. The *DaqPRO* features powerful graphical display and analysis functions for measuring voltage, current and temperature. It is designed to provide a professional, compact, stand-alone low cost data logging system for a wide variety of applications.

- High-end data acquisition hand-held mobile solution
- 8 channels each capable of measuring seven popular parameters
- Setup on every port makes it viable for all industries
- Stand-alone operation: Display and keyboard for field programming and analysis (graph/table)
- Rechargeable 7.2V battery with over 500 charging cycles
- High sampling rate – up to 4,000 samples/second
- Large data storage 512 KB RAM
- Fast communication channels: USB
- Multiple logging storage of up to 100 sampling sessions
- Scales readings into meaningful engineering units e.g. bar, ppm
- Built-in clock and calendar keeps track of time and date for each data recording
- On screen text editing to annotate collected data
- Value for money – less than $130 per channel

Notes

Setup

Numeric & graphic displays

File storage

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DaqPRO™

DaqLab Software

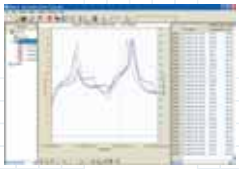
The *DaqPRO* is then the perfect choice for remote data logging and ideal for use as a mobile measuring device in any industrial environment or for field off site monitoring.

Wizard Analysis
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: 0-24 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:	21Ω

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:	125KΩ

Temperature NTC

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

Temperature PT-100

Range:	-200 - 400 °C
Resolution:	0.1 °C (7mΩ)
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 – 1200 °C
Resolution:	0.1°C (1µV)
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 – 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 – 400 °C
Resolution:	0.1°C (1µV)
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 - 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:	470Ω
Bandwidth:	0-25 Hz

Frequency Meter (Input 1 only)
Optocoupler input

Range:	20-4,000 Hz
Input signal:	0-5 V
Input impedance:	470Ω

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:	50Ω

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-bit
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: 25 hours between charges

Operating Temperature Range
0-50 °C

Casing
Plastic ABS box

Dimensions:	182 x 100 x 28 mm
Weight:	450 gr

Standards Compliance
CE, FCC

DaqLAB Analysis Software

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

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