ISE, Inc.

Daq**PRO**™

All in one solution for data logging and analysis

The **DaqPRO™** is a portable, battery operated data acquisition and logging system offering 16 bits, high-resolution 8 channel data logger. The **DaqPRO** feature 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.

Features

- Stand alone operation - sampling and displaying the measurements without connection to a computer
- Operates on a 7.2V rechargeable battery
- DaqPRO 5300 - 8 input channels measures voltage and current, PT100, thermocouples J, K, T and NTC
- 16 bit sampling resolution
- Rapid sampling - up to 4,000 samples per second
- Large data storage of 512KB RAM
- Large graphical display showing collected data as measured values, graphs or tables

- Setup via the DaqPRO keypad
- Fast USB communication channel
- Multiple logging storing up to 100 sampling sessions
- Ability to scale readings to 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 adding more information to the collected data
- Powerful analysis software for Windows 95/98/2000/ME/XP and NT
- Lowest cost for 8 channel data logger
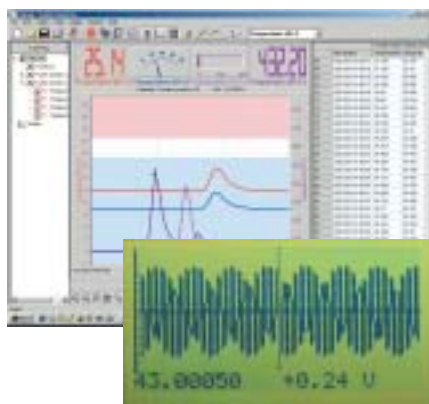
Committed to Quality

fourier

DaqPRO™

W 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 eliminiates 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)

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

0-24mA
Range:	0-24mA
Resolution:	0.47μA
Accuracy:	±0.5% rdg.
Loop impedance:	195Ω

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

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

Temperature NTC
NTC:	10/100KΩ resistor
Range:	-25 – 150ºC
Resolution:	0.05ºC
Accuracy:	±0.5ºC

Temperature PT-100
Range:	-200 – 400ºC
Resolution:	0.1ºC (7mΩ)
Accuracy:	±0.5% rdg +0.5C

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

Temperature Thermocouple J
Range:	-200 – 1200ºC
Resolution:	0.1ºC (1μV)
Accuracy:	±0.5% rdg. +0.5C
Cold junction compensation error:	±0.5ºC

Temperature thermocouple K
Range:	-250 – 1200ºC
Resolution:	0.1ºC (1μV)
Accuracy:	±0.5% rdg. +0.5C
Cold junction compensation error:	±0.5ºC

Temperature thermocouple T
Range:	-200 – 400ºC
Resolution:	0.1ºC (1μV)
Accuracy:	±0.5% rdg. +0.5C
Cold junction compensation error:	±0.5ºC

Internal temperature
Range:	-25 – 70ºC
Resolution:	0.1ºC (1μV)
Accuracy:	±0.5ºC

Pulse counter (Input 1 only)
Optocoupler input
Range:	0-65,000
Input signal:	0-5V
Input impedance:	470Ω
band width:	0-50hz

Frequency meter (input 1 only)
Optocoupler input
Range:	20-4,000Hz
Input signal:	0-5V
Input impedance:	470KΩ

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)
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 bits

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

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

Operating Temperature Range
0 to 50°C

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

Standards Compliance
CE, FCC

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 complies 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
AC029	12V Solar cell and battery
AD21203	12V AC/DC adapter
DT180	USB communication cable

To order DaqPRO products and accessories:
www.daqpro.com

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