

All in one solution for data collection 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. The DAQPRO 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 computer.
- Operates on a 7.2V rechargeable battery with over 500 charging cycles
- DAQPRO 5300 - 8 input channels measuring voltage and current
- DAQPRO 5301 - 8 input channels measuring PT100, thermocouples J, K and NTC
- High sampling resolution of 16 bits
- Fast sampling up to 1,000 samples per second in all inputs
- Large data storage of 512KB RAM
- Large graphical display showing collected data as measured values, graphs or tables
- Setup via the DAQPRO keypad
- Fast communication channels: RS232 and USB
- Infrared printer port for portable printer (HP82240B)
- Multiple logging storing up to 100 sampling sessions
- Ability to scale readings to a 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 and NT
- Lowest cost for 8 channel data logger





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DAQPRO

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

### Applications

- Quality assurance
- Plant & 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...

## Specifications

### DAQPRO 5300 Inputs

8 single ended inputs or 4 differential inputs  
 Selectable range for each input: 0-2.5V, 0-10V or 4-20mA  
 4-20mA current loop impedance 250W  
 0-2.5V channel impedance 1MW  
 0-10V channel impedance 10KW  
 Channel isolation: 105dB  
 0-2.5V resolution: 100mV  
 0-10V resolution: 400mV  
 4-20mA resolution: 400mA  
 Accuracy:  $\pm 0.08\%$  of reading  
 Connector: Detachable screw terminal

### DAQPRO 5301 Inputs

8 temperature inputs  
 Selectable range for each input: Thermocouple J, K, PT100 and 10K NTC thermistors  
 Thermocouple resolution: 0.1°C  
 Thermocouple accuracy:  $\pm 0.3\%$  of reading  
 Reference junction compensation error:  $\pm 0.2^\circ\text{C}$  at 25°C or  $\pm 0.4^\circ\text{C}$  at 0-70°C  
 PT100 resolution: 0.1°C  
 PT100 accuracy:  $\pm 0.3\%$  of reading  
 NTC resolution: 0.19Ω  
 NTC accuracy:  $\pm 0.3\%$  of reading  
 Connector: Detachable screw terminal

### Communication

RS-232 at 19,200 BPS  
 USB at 1.5Mbps

### Sampling

Capacity: 512KB (256,000 samples)  
 Analog sampling rate: Variable, 1 sample/hour to 1000 samples/second  
 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  
 External 9V to 12V DC input  
 Battery power consumption: 22mW  
 External DC power consumption: 1W

### Firmware Upgrade

Very easy replacement of the internal software chip  
 Future software upgrades available at a very low cost

### Operating Temperature Range

0 to 50°C

### Casing

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

### Standards Compliance

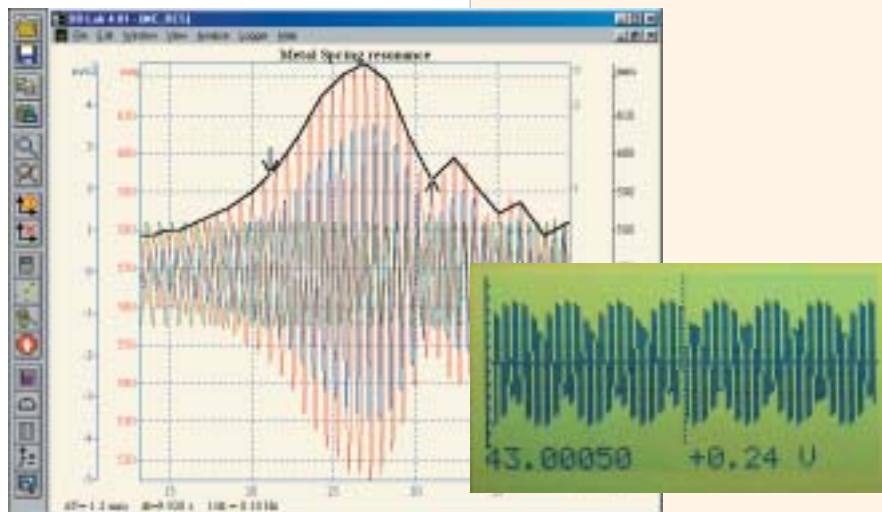
CE, FCC

### Analysis Software

Running on WINDOWS 95/98/2000 and NT  
 Fast data download from the DAQPRO  
 Data displayed in numeric or graphical display forms  
 Graphical analysis tools such as Zoom and Markers  
 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

### Accessories

Carrying case  
 Protection rubber boot  
 Solar cell and battery for field data logging  
 Weather box complies with the IP-65 standard for protecting the DAQPRO while working in field applications.



Part number	Description
DAQPRO-5300	DAQPRO data logger with 8 channels for voltage and current recording, users manual, carrying case, AC/DC adapter
DAQPRO-5301	DAQPRO data logger with 8 channels for temperature recording, users 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
DT135	RS232 communication cable
DT180	USB communication cable
DT176	Rubber boot