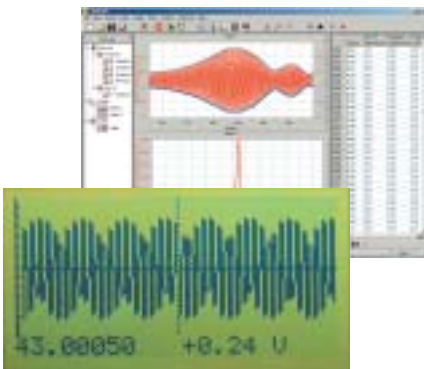


# DAQPRO<sup>™</sup> Specifications



## Inputs (DAQPRO 5300)

- 8 differential inputs
- Selectable range for each input: 0-20mA, 0-50mV, 0-10V, NTC, PT-100, Thermocouple, Frequency (Input 1 only)

### 0-20mA

Range: 0-20mA  
Resolution: 0.4  $\mu$ A  
Accuracy:  $\pm 5 \mu$ A  
Loop impedance: 50 $\Omega$

### 0-50mV

Range: 0-50mV  
Resolution: 1 $\mu$ V  
Accuracy:  $\pm 0.5\%$  of reading  
Input impedance: 200k $\Omega$

### 0-10V

Range: 0-10V  
Resolution: 160 $\mu$ V  
Accuracy:  $\pm 0.5\%$  of reading  
Input impedance: 200k $\Omega$

### Temperature NTC

NTC: 10K $\Omega$  resistor  
Range: -25 – 110 $^{\circ}$ C  
Resolution: 0.03 $^{\circ}$ C  
Accuracy:  $\pm 1\%$  of reading

### Temperature PT-100

Range: -200 – 400 $^{\circ}$ C  
Resolution: 0.1 $^{\circ}$ C (7m $\Omega$ )  
Accuracy:  $\pm 0.5\%$  of reading  
The DAQ-PRO offers up to 8 PT-100 2 wire channels or 4 PT-100 3 wire Channels.

### Temperature Thermocouple J

Range: -300 – 1500 $^{\circ}$ C  
Resolution: 0.1 $^{\circ}$ C (1 $\mu$ V)  
Accuracy:  $\pm 0.5\%$  of reading  
Cold junction compensation error:  $\pm 0.3^{\circ}$ C

### Temperature thermocouple K

Range: -250 – 1100 $^{\circ}$ C  
Resolution: 0.1 $^{\circ}$ C (1 $\mu$ V)  
Accuracy:  $\pm 0.5\%$  of reading  
Cold junction compensation error:  $\pm 0.3^{\circ}$ C

### General A to D specifications

Noise: 30  $\mu$ V rms  
Internal linearity error:  $\pm 0.08\%$  of FSR  
Offset error: 0.1%

### Frequency Input (Input 1 only)

Zero crossing detector  
Sensitivity: 20mV  
Range: 0.3 Hz to 20,000 Hz  
Resolution: 50 $\mu$ s

### Communication

- RS-232 at 19,200 BPS
- USB 1.1 compliant

### Sampling

Capacity: 256KB  
Analog sampling rate: Variable,  
1 sample/hour to  
10,000 samples/sec  
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: 50 hours between charges

## 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 $^{\circ}$ 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 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-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
DT135	RS232 communication cable
DT180	USB communication cable
DT176	Rubber boot