

DaqLink 4 Channel Multi-probe Data Logger

4 external inputs + internal humidity and temperature sensors



Light, portable and independent logging

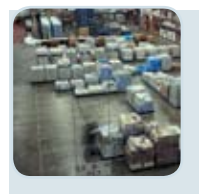
DaqLink, USB stand-alone data logger: High functionality in a simple package.

With built-in temperature and humidity sensors, plus four external probe inputs *DaqLink* ensures a low cost, reliable and accurate solution. For continuous indoor or outdoor data monitoring, *DaqLink* data logger is the tool of choice.



DaqLink provides a flexible and budget-friendly solution:

- Real-time - Online operation with data results on screen
- Independent - Manual or PC operation with on-site monitoring via two-row LCD display
- Intuitive - Simple keypad and easy-to-navigate menus
- Long life - Rechargeable battery lasting up to 6 months
- Variety - Four alarm levels with visual LCD, and audible alarms
- Non-stop - Continuous data storage to large onboard memory and periodic USB downloads



DaqLink 4 Channel Multi-probe Data Logger

Stand-alone data logging with:

2

Internal Sensors:

Temperature -20 to 50 °C
Humidity 5 to 95 %

4

External Inputs:

4 to 20 mA
0 to 50 mV
0 to 1 V
Temperature PT-100 2-wire
Temperature Thermocouple J
Temperature Thermocouple K
Temperature Thermocouple T
Frequency
Pulse Counter
Contact

2

External Outputs:

12 V Power Output
Alarm Device

User friendly analysis software is used to detect the DaqLink logger automatically

Operating System:

Windows® 2000 Service Pack 3

Windows® 2003

Windows® XP Service Pack 2 or higher

Windows® Vista

Internet Explorer 5.1 or higher

Hardware Requirements:

Pentium 800 MHz or higher

256 MB RAM

250 MB available disk space



Data View Features

- Real-time data in multiple displays (show table, graph, statistics)
- Ability to rename every logger and external input
- Online sensor view



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- The screenshot shows the 'New Run Definition' dialog box in the 'SAS Run Definition' window. The 'General' tab is active. At the top, there is a color-coded bar with three segments: blue for 'Low Heat', orange for 'Medium Heat', and red for 'High Heat'. Below the bar, a table lists various parameters with their current values and units. The 'Run' button is highlighted at the bottom.
- | Parameter | Value | Unit | Low Heat | Medium Heat | High Heat |
|--------------|-------|-------|----------------------|----------------------|----------------------|
| Initial Temp | 20.00 | °C | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Final Temp | 20.00 | °C | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Initial Flow | 0.00 | g/min | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Initial P-10 | 0.00 | g/min | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Initial P-11 | 0.00 | g/min | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Initial P-12 | 0.00 | g/min | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Initial P-13 | 0.00 | g/min | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Initial P-14 | 0.00 | g/min | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Initial P-15 | 0.00 | g/min | <input type="text"/> | <input type="text"/> | <input type="text"/> |
- Buttons: Run, Cancel

[illegible]

The top screenshot shows the 'Select' tab of the HP Update software. The 'Device' dropdown is set to 'P1100'. The 'Print' dropdown is set to 'All'. There are two radio buttons: 'Update all recommended' (selected) and 'Update to latest versions'. A 'Select' button is at the bottom. The 'Logistics' tab is also visible, showing details for 'Logistics 10/10/10'.

The middle screenshot shows the 'Check for updates' dialog box. It has a title bar 'Check for updates' and a 'Check' button.

The bottom screenshot shows the 'Setup link' dialog box. It has a title bar 'Setup link' and a message: 'Are you sure you wish to update the firmware version to 2.1a?'. There are 'Yes' and 'No' buttons.

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Specifications

DAQLINK INPUTS

DBSA710 and DBSA720 Input Types

4 to 20 mA

- Range: 4 to 20 mA
- Resolution: 4.76 μ A
- Accuracy: ± 0.5 %
- Loop impedance: 21 Ω
- Maximum load: 30 mA, 5.2 V

0 to 50 mV

- Range: 0 to 50 mV
- Resolution: 3 μ V
- Accuracy: ± 0.5 %
- Input impedance: 25 M Ω
- Maximum voltage: 5.2 V

0 to 1 V

- Range: 0 to 1 V
- Resolution: 200 μ V
- Accuracy: ± 0.5 %
- Input impedance: 25 M Ω
- Maximum voltage: 5.2 V

Temperature PT-100 (2-wires)

- Range: -200 to 400 $^{\circ}$ C
- Resolution: 0.1 $^{\circ}$ C
- Accuracy: -200 to -60 $^{\circ}$ C ± 0.5 %
-60 to 60 $^{\circ}$ C ± 0.3 $^{\circ}$ C
60 to 400 $^{\circ}$ C ± 0.5 %

Temperature Thermocouple J

- Range: -200 to 1,000 $^{\circ}$ C
- Resolution: 0.1 $^{\circ}$ C
- Accuracy: -200 to -60 $^{\circ}$ C ± 0.5 %
-60 to 60 $^{\circ}$ C ± 0.5 $^{\circ}$ C
60 to 1,000 $^{\circ}$ C ± 0.5 %
- Cold junction compensation error: ± 0.3 $^{\circ}$ C

Temperature Thermocouple K

- Range: -200 to 1,000 $^{\circ}$ C
- Resolution: 0.1 $^{\circ}$ C
- Accuracy: -200 to -60 $^{\circ}$ C ± 0.5 %
-60 to 60 $^{\circ}$ C ± 0.5 $^{\circ}$ C
60 to 1,000 $^{\circ}$ C ± 0.5 %
- Cold junction compensation error: ± 0.3 $^{\circ}$ C

Temperature Thermocouple T

- Range: -200 to 400 $^{\circ}$ C
- Resolution: 0.1 $^{\circ}$ C
- Accuracy: -200 to -60 $^{\circ}$ C ± 0.5 %
-60 to 60 $^{\circ}$ C ± 0.5 $^{\circ}$ C
60 to 400 $^{\circ}$ C ± 0.5 %
- Cold junction compensation error: ± 0.3 $^{\circ}$ C

Frequency (input 4 only)

- Zero crossing detector
- Range: 20 Hz to 4 KHz
- Input signal: 0 to 4,000 Hz
- Input impedance: 470 Ω

Pulse Counter (input 4 only)

- Zero crossing detector
- Range: 1 to 65,536 counts
- Resolution: 1 count
- Frequency range: 0 to 4,000 Hz
- Input signal: 0 to 5 V
- Input impedance: 470 Ω

Contact

- Range: Open/Closed

Internal Temperature

- Type: DBSA710: PT-100
DBSA720: Digital
- Range: -20 to 50 $^{\circ}$ C
- Resolution: 0.1 $^{\circ}$ C
- Accuracy: DBSA710: ± 0.3 $^{\circ}$ C
DBSA720: ± 0.5 $^{\circ}$ C

Internal Humidity (for DBSA720)

- Range: 5 to 95 %
- Resolution: 0.5 %
- Accuracy: ± 3 % at 10 to 90 %
 ± 5 % at 5 to 10 %
and 90 to 95 %

DAQLINK OUTPUTS

- 12 V Power output
- External Alarm

DAQLINK LOGGER SAMPLING FEATURES

- Memory capacity: ~59,000 samples
- Sampling rate: One every second to one every 18 hours
- Sampling resolution: 16-bit
- Channel separation: 80 dB

DAQLINK HARDWARE SPECIFICATIONS

DBSA710 and DBSA720

Display

- 2-row LCD
- 16 character display

Memory Modes

- Cyclic/Non-Cyclic
- Push to Run
- Pause

Power Supply

- Internal rechargeable 4.8 V NiMH battery
- Built-in battery charger
- External 12 V DC input

Operating Temperature Range

- -20 to 50 $^{\circ}$ C
- Water and dust proof: IP54

PC Communication

- USB 2.0 compliance
- Mini USB type B cable

Length and Temperature specifications are provided in Metric and Celsius units

Casing

- Plastic ABS box
- Dimensions: 104 x 93 x 27 mm
- Weight: 153 gr
- Table and wall mounting

GENERAL DAQLINK SPECIFICATIONS

Man Machine Interface

- Two-button keypad operation

Standards Compliance

- CE, FCC

DAQLINK SOFTWARE MAIN FEATURES

- Windows® based software
- Data displayed in numeric or graphical display of all inputs
- On-line retrieval and display of the collected data in real-time
- Definition of new sensors
- Full calibration of the loggers via the software
- Documentation and filing
- Alarm levels on graphs
- Export to spreadsheets
- Analytical functions, for professional analysis of the collected data
- Manual backup of calibration settings
- USB firmware update
- Report feature

AVAILABLE EXTERNAL SENSORS

PT-100 Sensor*

- Range: -70 to 400 $^{\circ}$ C
- Cable length: 2.5 m / 4 m / 6 m
- Teflon cable range: -65 to 200 $^{\circ}$ C
- Probe: Diameter 6 mm,
Length 81 mm

*See ordering information section

ORDERING INFORMATION

DBSA710	Internal Temp USB logger + 4 external inputs
DBSA720	Internal Temp&Humidity USB logger + 4 external inputs
12504	GSM Modem (for SMS alerts)
DQL-PCSUITE	PC Suite DaqLink Software CD
12753	PT-100 sensor (2-wire) 2.5 m
12752	PT-100 sensor (2-wire) 4 m
12751	PT-100 sensor (2-wire) 6 m
11304	Replacement internal battery pack
12655	Replacement 1m Mini USB communication cable
13330	Optional 3m Mini USB communication cable
DT246	Replacement 110/12 V AC/DC US adapter
DT245	Replacement 110/12 V AC/DC European adapter
DT282	Replacement 110/12 V AC/DC UK adapter