



Light, portable
and independent
logging



The DaqLink, USB stand-alone data logger offers 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.

- Internal sensors for site-specific monitoring
- 4 recording inputs measure multiple industry-standard units
- Intuitive keypad with Run/Pause logging option
- 4 audio alarms with email/SMS notification to any location
- Real-time data streaming to PC, or large cyclic memory storage
- Onsite monitoring via two row LCD and periodic USB data download
- Long-lasting rechargeable battery

www.fourtec.com

INNOVATIVE MONITORING SOLUTIONS

DaqLink Solution 4-CHANNEL STANDALONE DATA LOGGING



TESTING STANDARDS
Ensuring quality control and compliance with safety standards



RESEARCH & DEV.
Academic and industrial laboratory research measuring multiple parameters



MILITARY
Storage, equipment maintenance, machinery and production testing



COLD CHAIN
Ensuring quality products throughout the cold chain process



WAREHOUSING
Chemical, industrial and perishables storage

DaqLink Solution

4-CHANNEL STANDALONE DATA LOGGING



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

DataSuite Software for DaqLink

Supported Operating Systems:

Windows® XP SP3 / Vista / 7 (32 and 64 Bit)

Minimum Hardware Requirements:

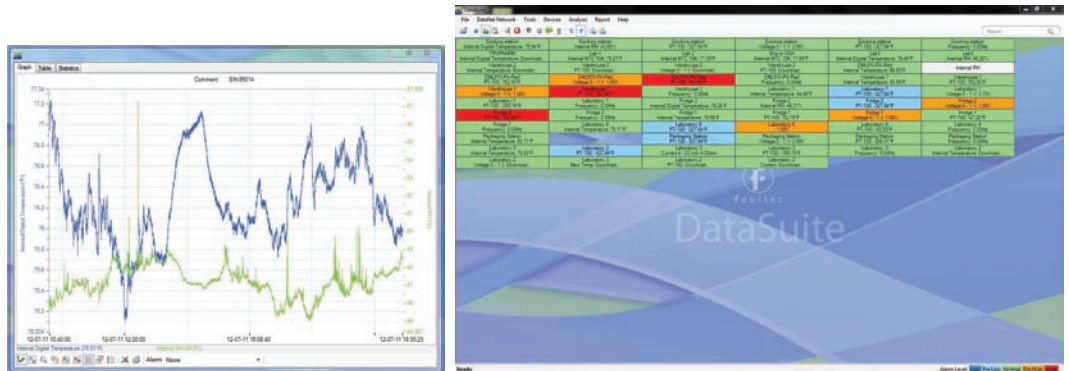
Pentium 4, 2 GHz Processor or better,
 512 MB RAM, 250 MB available disk space



The DataSuite Software provides security for your products with online monitoring and control of the DaqLink data logging solution.

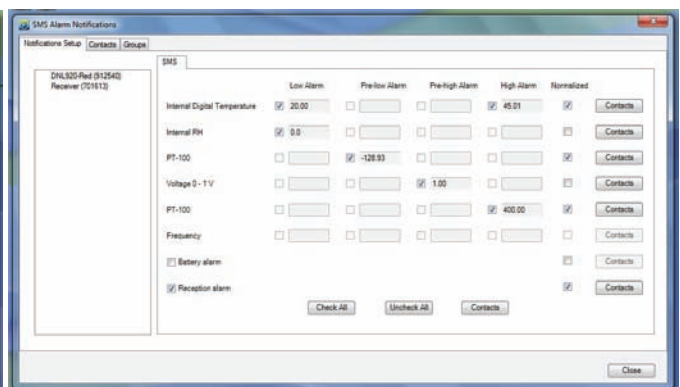
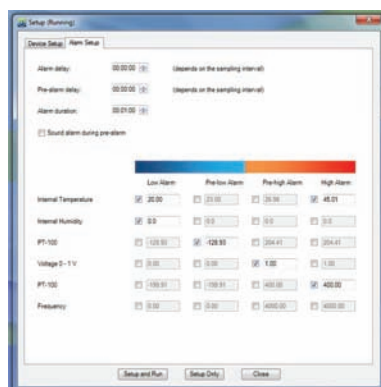
Data View Features

Real-time, online data in multiple displays (Graph, Table, Statistics, Sensor View)



Alarm Features

Alarm level setup with email & SMS notifications. Four alarm levels, allowing for programming of 4 separate parameters, with alarm delay and duration



INPUT TYPES

DBSA710, DBSA720

4 to 20 mA

- Range: 4 to 20 mA
- Resolution: 4.76 μ A
- Accuracy: $\pm 0.5\%$
- Loop impedance: 21 Ω

0 to 50 mV

- Range: 0 to 50 mV
- Resolution: 3 μ V
- Accuracy: $\pm 0.5\%$
- Input impedance: 25 M Ω
- Max voltage: 3.2 V

0 to 1 V

- Range: 0 to 1 V
- Resolution: 200 μ V
- Accuracy: $\pm 0.5\%$
- Input impedance: 25 M Ω
- Max voltage: 3.2 V

Temperature PT-100 (2-wires)

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

Temperature Thermocouple J

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

Temperature Thermocouple K

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

Temperature Thermocouple T

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

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 3.2 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: $\pm 0.3\%$
DBSA720: $\pm 0.5\%$

Internal Humidity (for DBSA720)

- Range: 5 to 95 %
- Resolution: 0.5 %
- Accuracy: $\pm 3\%$ at 10 to 90 %
 $\pm 5\%$ at 5 to 10 %
and 90 to 95 %

OUTPUTS

DBSA710, DBSA720

External Power Excitation (transducers usage)

- 12 VDC @ 2 A
- Reset fuse overload protection

Dry Contact Alarm Output

- Open collector
- Close position resistance: 50 Ω
- Max. Load: 50 mA, 3 V DC

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

HARDWARE SPECIFICATIONS

DBSA710, DBSA720

Display

- 2-row LCD
- 16 character display

Memory Modes

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

Power Supply

- Internal rechargeable 4.8 V, 800 mAh NiMH battery (2 batteries in series)
- Built-in battery charger
- External 12 V DC input @ 300 mA 3.6 VA

Operating Temperature Range

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

PC Communication

- USB 2.0 compliance
- Mini USB type B cable

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, IC Canada

DATASUITE SOFTWARE FOR DAQLINK

- Windows[®] based software
- Data displayed in numeric or graphical display of all inputs
- Online retrieval and display of the collected data in real-time
- Report module
- 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
- Software integration with range of fourtec data loggers

HARDWARE SPECIFICATIONS

DBSA710 Internal Temp USB logger + 4 external inputs

DBSA720 Internal Temp & Humidity USB logger + 4 external inputs

12504 GSM Modem (for SMS alerts)

DataSuite-DQL DataSuite Software CD + 3m Mini USB cable + single user license

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

DT043 Temperature/Humidity probe

11304 Replacement internal battery pack

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

13825 External Alarm Siren + Strobe