

Light, portable and independent logging

# INNOVATIVE MONITORING SOLUTIONS

# 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



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



# Stand-alone data logging with:

# **Internal Sensors:**

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

# **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

# **External Outputs:**

12 V Power Output **Alarm Device** 

# DataSuite Software for DaqLink

The DataSuite software provides security for your products with online monitoring and control of the entire application environment.

**Supported Operating Systems: Minimum Hardware** Windows® XP SP3 / Vista / 7 (32 and 64 Bit)

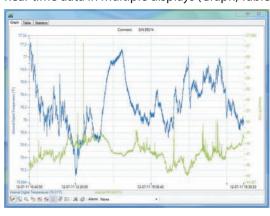
Requirements:

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



# **Data View Features**

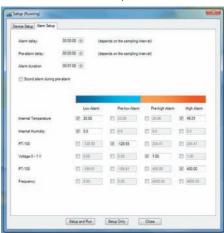
Real-time data in multiple displays (Graph, Table, Statistics)

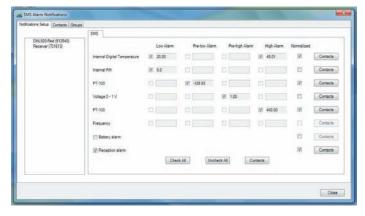




# **Alarm Features**

Multi-alarm level setup with email and SMS notifications





# **Report Module**

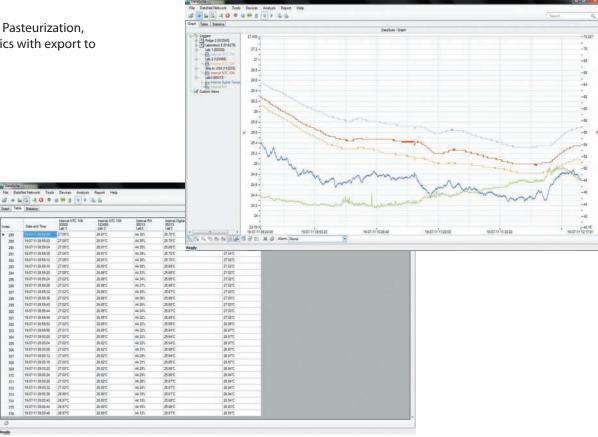
The Report Module provides the DaqLink user with an intuitive interface for creating and generating reports which have many parameters garnered from the DaqLink data logger and software.

Each report can be emailed to a selected distribution list, at predefined time intervals, in PDF and Excel format.



# **Analysis Features**

Dew point analysis, FO Pasteurization, histogram, MKT, statistics with export to Excel and CSV formats



# FDA Title 21 CFR Part 11 Compliant



# **DatPass**

DatPass is a user administration software which supports the assignment of passwords and operating privileges for all fourtec industry application software ensuring CFR compliancy. CFR is a Food and Drug Administration (FDA) issued regulation (Title 21 Code of Federal Regulations, Part 11).

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DatPass Audit Trail

# **DaqLink Specifications**

Length and Temperature specifications are provided in Metric and Celsius units

# INPUT TYPES

# DBSA710, DBSA720

# 4 to 20 mA

4 to 20 mA Range: Resolution: 47.6 µA ±0.5 % Accuracy: Loop impedance: 21 Ω

# 0 to 50 mV

Range: 0 to 50 mV 37 μV Resolution: Accuracy: +0.5% Input impedance: 25 ΜΩ Maximum voltage: 3.2 V

# 0 to 1 V

Range: 0 to 1 V Resolution: 200 μV ±0.5 % Accuracy: Input impedance: 25 ΜΩ Maximum voltage:

# Temperature PT-100 (2-wires)

-200 to 400 °C Range: Resolution: 0.1 °C

-200 to -60 °C Accuracy: ±0.5 %

-60 to 60 °C ±0.3 °C 60 to 400 °C ±0.5 %

# Temperature Thermocouple J

Range: -200 to 1,000 °C

Resolution: 0.1 °C

Accuracy: -200 to -60 °C +0.5% -60 to 60 °C ±0.5 °C

> 60 to 1.000 °C ±0.5 %

• Cold junction compensation error: ±0.3 °C

# Temperature Thermocouple K

-200 to 1,000 °C Range: 0.1 °C

Resolution:

-200 to -60  $^{\circ}\text{C}$ ±0.5 % Accuracy:

-60 to 60 °C ±0.5 °C

60 to 1,000 °C +0.5%

Cold junction compensation error: ±0.3 °C

# Temperature Thermocouple T

-200 to 400 °C Range:

Resolution: 0.1 °C

-200 to -60 °C ±0.5 % Accuracy: -60 to 60 °C ±0.5 °C

60 to 400 °C +0.5%

· Cold junction compensation error: ±0.3 °C

# Frequency (input 4 only)

· Range: 20 Hz to 4 KHz Input signal: 0 to 5 V Input impedance: 470 Ω

# Pulse Counter (input 4 only)

Input impedance:

1 to 65,536 counts Range: Resolution: 1 count 0 to 4,000 Hz Frequency range: Input signal: 0 to 3.2 V

470 O

Dry Contact

Range: Open/Closed

# Internal Temperature

DBSA710: PT-100 Type: DBSA720: Digital -20 to 50  $^{\circ}\text{C}$ Range:

Resolution: 0.1 °C DBSA710: ±0.3 °C Accuracy:

Range: 5 to 95 % RH 0.5 % RH Resolution:

Internal Humidity (for DBSA720)

 $\pm 3$  % at 10 to 90 % RH Accuracy:

±5 % at 5 to 10 % RH and 90 to 95 % RH

DBSA720: ±0.5 °C

# **OUTPUTS**

# DBSA710, DBSA720

# External Power Excitation (transducers usage)

• 12 VDC @ 300 mA

Reset fuse overload protection

# **Dry Contact Alarm Output**

Open collector

Close position resistance: 50  $\Omega$ 

Max. Load: 50 mA, 3 V DC

# LOGGER SAMPLING FEATURES

· Memory capacity: ~59,000 samples

(depending on logger configuration)

Sampling rate: One every second to one

every 18 hours

· Channel separation:

# HARDWARE SPECIFICATIONS

# DBSA710, DBSA720

# Display

2-row LCD

16 character display

# **Memory Modes**

Cvclic/Non-cvclic

Push to Run

Pause logging

# **Power Supply**

Internal rechargeable 4.8 V, 800 mAh NiMH battery

External 12 V DC input @ 300 mA 3.6 VA

Battery Life: Up to 10 months, depending on logger configuration

# **Operating Temperature Range**

-20 to 50 °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 g

Table and wall mounting

## **GENERAL DAOLINK 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
- Report module
- Definition of new sensors for current and voltage
- Full logger calibration via the software
- Manual backup of calibration settings
- Documentation and filing
- Alarm levels on graphs
- Export to spreadsheets
- Analytical functions, for professional analysis of the collected data
- Firmware update via USB
- Software integration with range of Fourtec data loggers

# **ORDERING INFORMATION**

# DATA LOGGER

DBSA710 Internal Temp USB logger + 4 external inputs DBSA720 Internal Temp & Humidity + 4 external inputs

# SENSORS/ACCESSORIES

50164 Quad Band GSM Modem (for SMS alerts) 12753 PT-100 sensor (2-wire) 2.5 m cable 12752 PT-100 sensor (2-wire) 4 m cable 12751 PT-100 sensor (2-wire) 6 m cable DT043 Temperature/Humidity probe 11304 Replacement internal battery pack 13330 Replacement 3m mini USB communication cable AD001 Replacement 100 to 240 V. 12 VDC universal power supply 13825 External Alarm Siren + Strobe 50129 Magnetic door contact sensor, for open/close alarms

# SOFTWARE

DataSuite-DQL DataSuite software installation CD +

user license + mini USB 3m communication cable

DS-CFR-DOL FDA 21 CFR Part 11 compliant DatPass

and DataSuite software installation CD + user licenses + mini USB 3m communication cable

