fourtec
F O U R I E R   T E C H N O L O G I E S

Light, portable and independent logging

DaqLink
4-channel Plus Internal Temperature & RH DBSA720
In-TMP
27.53°C
MENU
▼

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

DaqLink Solution
4 - CHANNEL STANDALONE DATA LOGGING

www.fourtec.com

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

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

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

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

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.
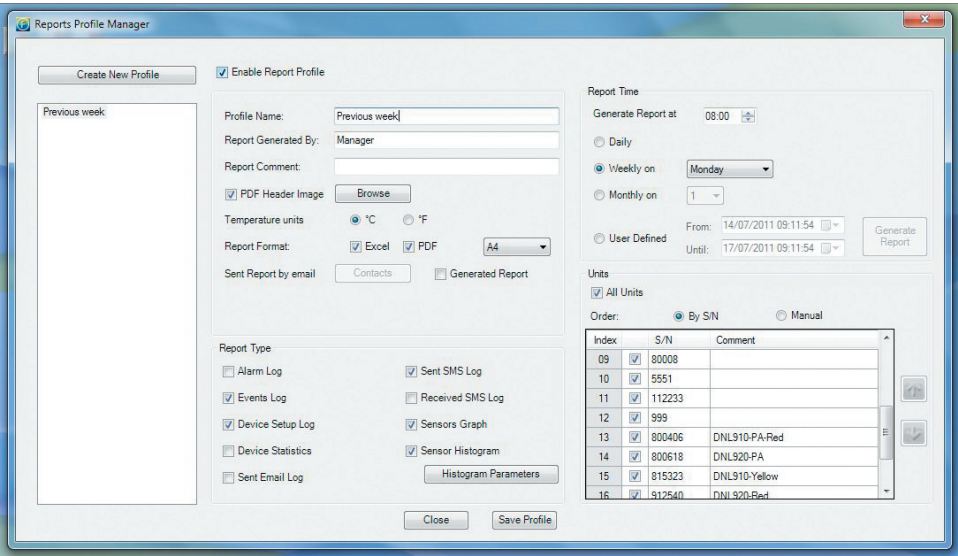
Analysis Features

Dew point analysis, FO Pasteurization, histogram, MKT, statistics with export to Excel and CSV formats
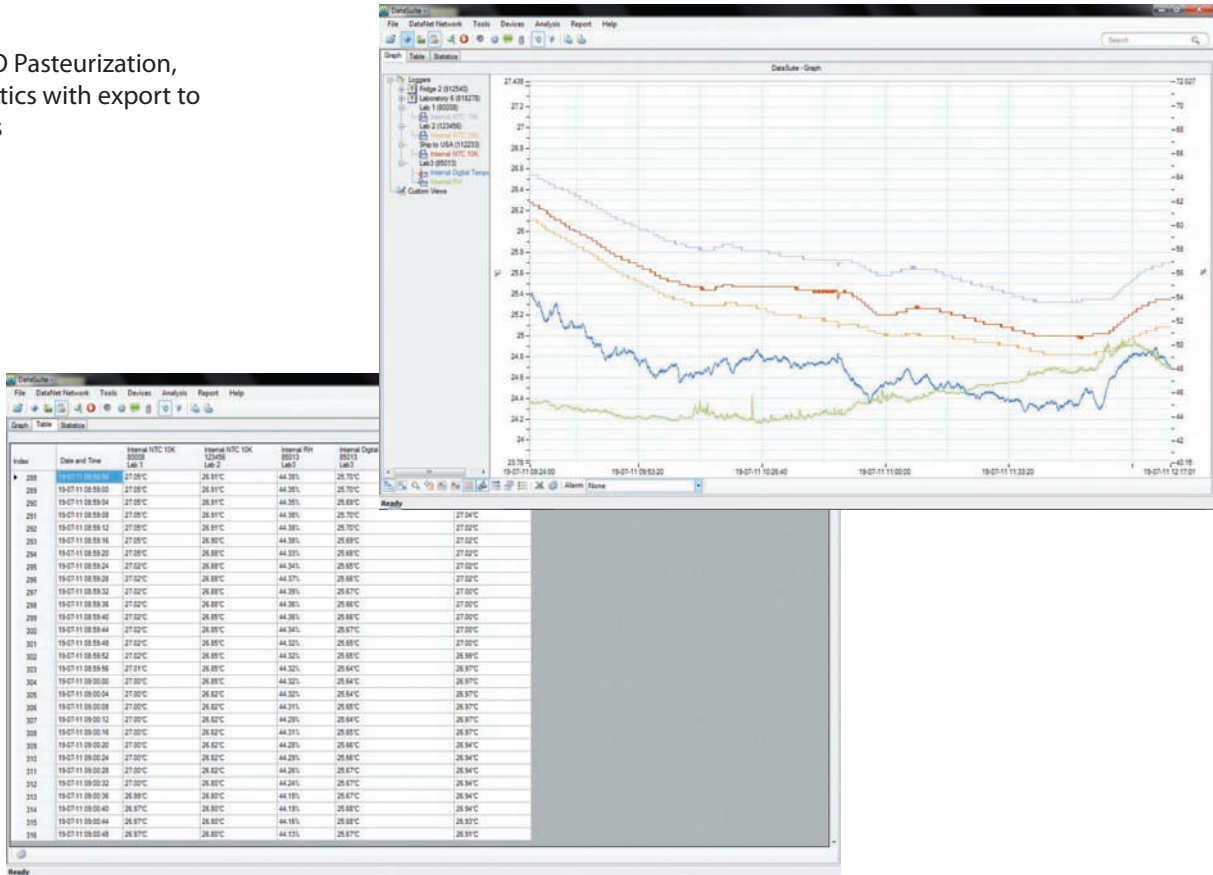
FDA Title 21 CFR Part 11 Compliant

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).

DatPass Audit Trail

DaqLink Specifications

Length and Temperature specifications are provided in Metric and Celsius units

INPUT TYPES

DBSA710, DBSA720

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

0 to 50 mV
- Range: 0 to 50 mV
- Resolution: 37 µV
- Accuracy: ±0.5 %
- Input impedance: 25 MΩ
- Maximum voltage: 3.2 V

0 to 1 V
- Range: 0 to 1 V
- Resolution: 200 µV
- Accuracy: ±0.5 %
- Input impedance: 25 MΩ
- Maximum voltage: 3.2 V

Temperature PT-100 (2-wires)
- Range: -200 to 400 ˚C
- Resolution: 0.1 ˚C
- Accuracy:
  - -200 to -60 ˚C ±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 ºC

Temperature Thermocouple K
- Range: -200 to 1,000 ºC
- 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 T
- Range: -200 to 400 ˚C
- Resolution: 0.1 ˚C
- Accuracy:
  - -200 to -60 ˚C ±0.5 %
  - -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)
- 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

Dry Contact
- Range: Open/Closed

Internal Temperature
- Type: DBSA710: PT-100
  DBSA720: Digital
- Range: -20 to 50 ˚C
- Resolution: 0.1 ˚C
- Accuracy: DBSA710: ±0.3 ˚C
  DBSA720: ±0.5 ˚C

Internal Humidity (for DBSA720)
- Range: 5 to 95 % RH
- Resolution: 0.5 % RH
- Accuracy: ±3 % at 10 to 90 % RH
  ±5 % at 5 to 10 % RH
  and 90 to 95 % RH

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 Ω
- 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: 80 dB

HARDWARE SPECIFICATIONS

DBSA710, DBSA720

Display
- 2-row LCD
- 16 character display

Memory Modes
- Cyclic/Non-cyclic
- 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 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 for current and voltage inputs
- 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-DQL FDA 21 CFR Part 11 compliant DatPass and DataSuite software installation CD + user licenses + mini USB 3m communication cable

www.fourtec.com // info@fourtec.com

fourtec
FOURIER TECHNOLOGIES