

DaqLink Solution 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: 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
- Maximum 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
- Maximum voltage: 3.2 V

Temperature PT-100 (2-wires)

- Range: -200 to 400 °C
- Resolution: 0.1 °C
- Accuracy: -200 to -60 °C $\pm 0.5\%$
-60 to 60 °C $\pm 0.3\%$
60 to 400 °C $\pm 0.5\%$

Temperature Thermocouple J

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

Temperature Thermocouple K

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

Temperature Thermocouple T

- Range: -200 to 400 °C
- Resolution: 0.1 °C
- Accuracy: -200 to -60 °C $\pm 0.5\%$
-60 to 60 °C $\pm 0.5\%$
60 to 400 °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

Dry Contact

- Range: Open/Closed

Internal Temperature

- Type: DBSA710: PT-100
DBSA720: Digital
- Range: -20 to 50 °C
- Resolution: 0.1 °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

Alarm Output (output 1)

- 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 °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

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

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)
- DataSuite-SW** DataSuite Software CD + 3m Mini USB cable
- SFTULDQL** DaqLink Module Single User License (must order with DataSuite-SW)
- 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



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FOURIER TECHNOLOGIES

For more information please contact: info@fourtec.com
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