DAQlink III
SEISMOGRAPH

The DAQlink III is the third generation of the DAQlink Series of portable seismograph systems. The system can be configured as a stand-alone monitoring system, a refraction system or a distributed seismic reflection system.

There are four LED indicator lights located on the lid to give the status of the instrument. The case is designed to be extremely rugged and lightweight with an "O" ring seal to ensure water tight integrity to IP 67 standard. There is a single input connector for up to 24 input channels, a 12-volt power input connector, a 3 pin trigger connector, a 19-pin GPS/auxiliary connector, and an Ethernet connector for high speed connection to portable computer.

- New High Resolution Seismograph -
  Over 118 dB at 2msec
- Extremely Wide Bandwidth -
  DC to 15 Khz
- True Continuous Recording capability
- Excellent for MicroSeismic and Strong Motion Surveys
- Built in system tests and line check
- Low Power:
  Less than 0.4 watts/channel
- High Speed Download of internal data
  100 MBits/sec
- Trigger accuracy:
  Better than 1 microseconds at any sample rate
- Large internal storage for continuous monitoring
  (Optional 32 Gigabyte will record for over 80 days of continuous data (3 channels at 2 msec))
- Noise floor
  Less than 0.2 microvolts RMS at 2 msec sampling

Seismic Source Co Address: 2391 E. Coleman Rd. Ponca City, OK 74604
Phone: (580) 762-8233 Fax: (580) 762-1785 email: mail@seismicsource.com

Detailed DAQlink III Specifications:

1 to 24 channels per unit
Weatherproof enclosure
Multiple units can be used together for large channel count

A/D conversion:
24 bit high-speed sigma delta converters

Dynamic range:
144 dB (system)
Greater than 118 dB(measured at 2msec)

Bandwidth:
DC to 15 Khz
Analog filter flat response to 8000 Hz
Digital Filter Bandwidth = 85% of Nyquist frequency

Common Mode Rejection:
Greater than 100 dB

Crosstalk:
Better than 125 dB

Noise Floor:
0.2 microVolt RMS noise (2 msec sample rate)

Trigger Accuracy:
+/- 1 microsecond at all sample rates

Maximum Input Signal:
Standard (x 2 gain) 3.58 Volts peak to peak
(optional: (x 1 gain) 7.16 Volts peak to peak)

Input Impedance:
100 K Ohms

Preamplifier Gains:
x2 (6 dB) and x32 (30 dB) standard; software selectable
(x1 (0 dB) and x16 (24 dB) available on special request)

Anti-alias Filters:
85 % of Nyquist frequency

Digital Filters:
Low Cut - User Selectable frequency
Notch - 50 or 60 Hz standard; User Selectable
High Cut - User Selectable

Sample Interval:
0.0208, 0.0625, 0.125, 0.250, 0.500, 1.00, 2.00, 4.00, 8.00, 16.00 millisecond

Sample Frequency:
48000, 16000, 8000, 4000, 2000, 1000, 500, 250, 125, 62.5 samples/second

Record Length:
Up to 4 billion samples

Pre-trigger delay:
10 second

Continuous Recording Option

GPS Interface
Internal Clock synchronized to GPS time
GPS Time and Position saved with data

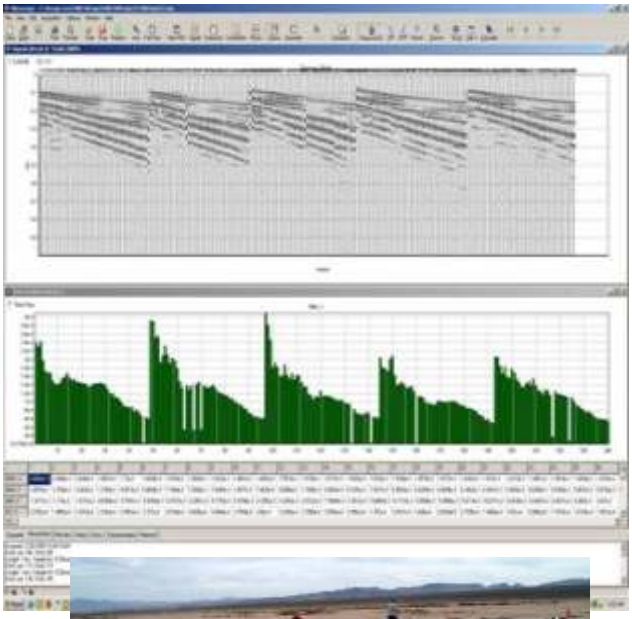
Internal Storage:
Compact Flash style storage media
Standard FAT16 or FAT32 file system
(maximum file size = 32GB)

100Mbit Ethernet:
Download speed 8MB/sec; real time transfer

Power consumption:
24 channels: less than 0.4 Watt/ channel)

Built -in Line Testing and Instrument Tests

Size: 330 x 230 x 60 mm
Weight: 7.5 lbs (3.4 kg)



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