DAQ3-3

High Resolution Versatile Seismic Recording System

The DAQ3-3 is the third generation of portable seismograph systems. The system can be configured as a stand-alone monitoring system, a refraction system or a distributed seismic reflection system.

The DAQ3-3 has been designed for temporary or long term installations and can be monitored continuously or periodically, locally or remotely. External clock synchronization via GPS Module, VHF/UHF radios or Wire enables usage in any environment.

Field Benefits

Cutting-Edge Technology for Data Quality

- Best 32 bit A/D
- High Resolution Clock
- **Low Noise & Low Distortion Means Better Data**

Designed to Produce & Protect Data

- Data Always Stored in Box - No Lost Data
- Offload Data While Recording - No Lost Production
- **Better Data Handling for Superior Production**

Versatile Operation

- Continuous Recording
- Trigger on Time, Data Event or Trigger Input
- **Different Modes for Different Types of Projects**

Modular and Stackable

- Combine Units for Additional Channels
- Uses Common GPS Module & Network Connection
- **Use "MegaDAQ" Configuration for Maximum Channels in Minimal Space**

Built-In Trigger Circuit

- Operate as Time Break Recorder
- Captures T0 Time and Aux Channel Data
- **Great for Monitoring Autonomous Sources**

Hardware Benefits

Sturdy Aluminum Construction

- Rugged, Lightweight, "O" Ring Sealed to IP 67
- Threaded Holes for Mounting
- **For Permanent Mounting, or Long-Term Deployment**

"Off the Shelf" Standard Connectors

- USB "A" Connector for Data Backup
- RJ-45 Ethernet Connector for Data Collection
- **Makes Communication & Installation Easier**

Common Data Signal Connector

- One Set of Three Differential Signals for Geophones
- One Set of Three Differential Signals for Seismometers
- 12v Power Output for Active Sensors
- **Supports a Wide Variety of Sensor Types**

All External Networks

- GPS Module
- Wi-Fi Module / Cellular Modem
- **Enables Mounting inside Containers and Vaults**

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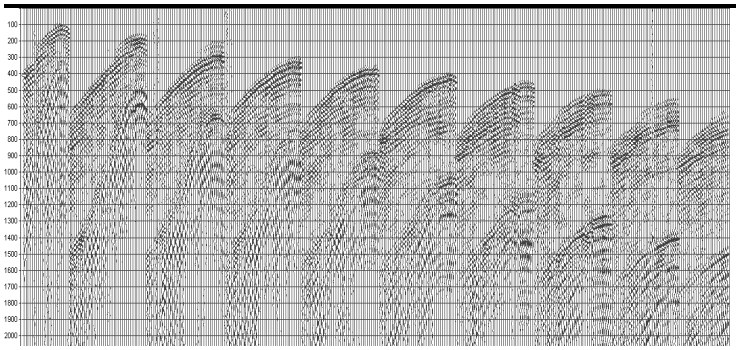
DAQ3-3

Data Download



Superior Design

- Download Current or Historical Data
- **Does Not Interrupt Data Acquisition**

USB Data Offload

- Duplicates Data While Recording
- **Promotes Faster Station Visits**

Network Data Offload

- Cable, Wi-Fi, Cellular, Satellite, etc.

Uses Standard Off-the-shelf Components.

DAQ3-3 units stacked for additional channels.

DAQ3-3 with GPS unit and high capacity Lithium battery

DAQ3-3 Specification

Electrical	
A/D	32 bit sigma delta converter
Anti-Alias Filters	85% of Nyquist frequency
Low Cut Filter	User Selectable – DC, 0.1 Hz, 2 Hz
Filter Type	User Selectable – Linear, Minimum Phase
Sample Rates	¼, ½, 1, 2, 4, 8 ms
Max Input @ High Gain	0.31 Volts peak to peak
Max Input @ Low Gain	5.00 Volts peak to peak
Power Wake/Sleep	0.48/0.01 watts per channel
Input Impedance	20k Ohms
Clock Sync	GPS or VHF/Wire
Sensor Types	Passive & Active
Performance	
Trigger Accuracy	± 1 µs at all sample rates
Dynamic Range	126 dB
% THD	0.0012 %
Crosstalk	Better than -125 dB
Common Mode Rejection	> 100 dB
Noise Floor	< 0.09 µV RMS @ 2ms

Physical	
# Channels	3
Temperature	-40°C to +85°C
Humidity	0 to 100%
Size	9.0" x 9.0" x 2.1" (230 x 230 x 54 mm)
Weight	5 lbs (2.3 kg)
Data Storage (Internal 8GB CF)	480 hours (3 channels @ 2ms)
Data Storage (External 16GB USB)	960 hours (3 channels @ 2ms)
Data Format	32-bit float IEEE SEG-Y/SEG-D
LEDs	Recording LED, Battery LED