



# HGS (INDIA) LIMITED



## SPECIFICATION SHEET - DAQlink5 -30 Seismograph

### A 24-channel DAQlink 5 Seismograph

#### Now Featuring 6 Auxiliary Channels

**DAQlink 5** is the fifth generation of portable seismograph systems. It can be configured as a stand-alone monitoring system, a refraction system or a distributed seismic reflection system.

The 30 channel **DAQlink 5** features six Auxiliary Channels. These channels are divided into two sets: Three channels with gains matching the other data channels; And three attenuated channels suitable for use with vibrators and other high-output sources.

#### Six Auxiliary Channels

##### Three Matching Data Channels

The first three auxiliary channels have gain settings matching that of the other 24 data channels. When using an impulsive source, these channels can be used to record data from signature geophones and for downhole sources, they can be used to record an uphole geophone.

##### Three Attenuated Channels

The second set of three channels feature 12 dB of built-in attenuation, increasing the input voltage range from 5 volts peak-to-peak to 20 volts P2P. This attenuation will match the DAQlink's maximum input voltage to most vibrator controllers.



*DAQlink5-30*

*24 Channel Seismograph with  
6 Auxiliary Channels*

### System Features

#### Cutting-Edge Performance:

- 1 to 24 channels per seismograph node
- High-Speed 24bit ADC – up to 64,000 sps
- Wide Bandwidth – DC to 32 KHz (unfiltered)
- Low Distortion – 0.00008% THD @ 500 sps
- Wide Dynamic Range →124 dB @ 500 sps typical
- Low Noise – <0.15 μV RMS @ 500 sps

#### Multiple Time Synchronization Modes:

- GPS Clock Discipline for Autonomous Recording
- VHF/UHF Radio for Underground Use

#### Multiple Trigger Modes:

- Trigger on hammer switch for shot acquisition
- Trigger using GPS time for noise monitoring
- Two trigger circuits available, one for standard and a second for low-voltage inputs




#### Multiple Data Storage Methods:

- 16 Gb internal memory card standard
- External mounted, USB-compatible Memory Plug for data backup and transfer
- Ethernet connection for fast data transfers & remote data storage



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<p><b>Twin Built-in Ethernet Network:</b></p> <ul style="list-style-type: none"> <li>▪ Uses network to configure seismograph and monitor acquisition</li> <li>▪ Compatible with cables, Wi-Fi and Cellular Data</li> <li>▪ Internal FTP server for external data access</li> </ul> <p><b>Built-in Acceptance Testing:</b></p> <ul style="list-style-type: none"> <li>▪ Instrument Tests: Distortion, Cross-feed, CMRR, Impulse, Noise</li> <li>▪ Sensor Tests: Resistance, Frequency, Damping, Sensitivity</li> </ul>	<p><b>Includes VibraScope Software</b></p> <p><b>Functions:</b></p> <ul style="list-style-type: none"> <li>▪ Configures DAQlink 5 for Acquisition</li> <li>▪ Monitors Seismograph Operation</li> <li>▪ Offloads and Evaluates Data</li> </ul> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>▪ Data Display</li> <li>▪ Analysis – Amplitude &amp; Phase Spectra</li> <li>▪ RMS Noise and Signal Graphs</li> </ul>
<p><b>A Stackable and Modular System</b></p> <p><b>Stacking DAQlink 5-24 &amp; 5-30 Units</b></p> <ul style="list-style-type: none"> <li>▪ The DAQlink 5-30 seismograph is designed to be stacked with other DAQlinks to create larger systems. Simply buckle the individual units together and connect the cables.</li> <li>▪ All DAQlink 5 units feature the new Bridge Connector. This cable contains network, GPS, and trigger connections along with the power for every seismograph. A single GPS module ensures correct timing for all the DAQlinks, and the common trigger ensures correct T0 timing.</li> <li>▪ All six auxiliary channels are saved in the output data file. For Vibroseis acquisition, Vscope 3 software will cross-correlate the new shot record both for saving and for quality control in the field.</li> </ul>	 <p><i>Stack DAQlink 5-30 units with Other DAQlinks 5s</i></p>
 <p><i>Capture Signature Data</i></p>	 <p><i>Capture Vibrator signal</i></p>
<p><b>Perfect for Land Streamers</b></p> <ul style="list-style-type: none"> <li>▪ With the DAQlink 5-30 in the Recording Van, data for the source can be recorded simultaneously and store with the streamer data.</li> <li>▪ For Impulsive Sources, a 3-component geophone can be mounted on the streamer. Data from this sensor is then available for further processing.</li> <li>▪ For Vibrators, the three attenuated channels record the pilot, baseplate, and reaction mass traces. The pilot trace is used to cross-correlate the geophone data for field QC and later then for processing.</li> </ul>	



<b>Ordering Information</b>	
<b>Item Discription</b>	<b>Part No.</b>
DAQlink5 -30 Seismograph	MK001588

*Version 1.0*



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