

SUMMIT II Compact **The Seismic ‘Productivity System’!**

The SUMMIT II Compact is the most productive and robust seismic acquisition system for LVL measurements, borehole tomography, and VSP surveys: The twenty-four channel box in a solid metal casing with the SUMMIT ‘Plug & Trace’ technology can be used in any environment for high speed production. The seismograph works as a stand alone system or several boxes can be linked together with the ‘Snap-on’ line cable to comprise a multi-channel seismic acquisition system.

Specialised for LVL and Engineering Seismics!

- Highest productivity due to its sophisticated system design
- For specialist applications such as LVL and engineering surveys
- Extremely robust, lightweight metal casing
- Supreme service via rapid reaction support hotline

SUMMIT II Compact field application



Seismogram



Technical Specifications

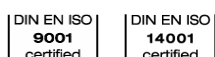
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|-----------------------------|---------------------------------------------------------------------|
| Sample Interval | 1/48, 1/32, 1/16, 1/8, 1/4, 1/2, 1, 2, 4, 8 ms |
| Record Length | 0.5 K samples, ..., 120 K samples |
| Preamp Gain | 0 dB, 20 dB or 40 dB |
| A/D Converter | 24 bit delta sigma technology |
| Maximum Input Signal | 2.0 Volt RMS 5.6 Volt peak to peak |
| Input Impedance | 20 kOhm |
| Instantaneous Dynamic Range | ≥ 120 dB @ 2 ms sampling interval |
| Equivalent Input Noise | Less than 0.2 μV RMS @ 2 ms sampling interval and 40 dB preamp gain |
| Crosstalk Rejection | ≥ 112 dB (between channels) |
| Total Harmonic Distortion | ≤ 0.0008 % |
| Common Mode Rejection | ≥ 100 dB |
| Gain Accuracy | Typical 1 % (between all channels) |
| Time Accuracy | Typical 5 ppm (between all channels) |
| Power Supply | + 9 - 18 VDC @ 0.2 W / channel |
| Dimensions | 20.0 x 15.0 x 29.0 cm |
| Weight | 4.9 kg |

Environmental Specifications

| | |
|-----------------------|----------------------------------------------------------------------|
| Operation Temperature | -30°C to + 70°C |
| Humidity Range | 0 – 95 % |
| Case | Solid waterproof metal housing deployable in any surface environment |

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TÜV NORD GROUP

| | |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analogue Anti-Alias Filter | 7.2 kHz 6 dB/octave |
| Analogue Low-Cut Filter | 1 Hz 6 dB/octave |
| Digital Anti-Alias Filter | 0.8 x Nyquist |
| Rejection at Nyquist Frequencies | -120 dB |
| Passband Ripple | +/- 0.05 dB |
| Built-In Test Functions | - Sine wave - Pulse - Instrument noise - Geophone step - Sweep transfer - Auto correlation - Cross correlation |
| System Check | - Battery status - Equivalent input noise - Total harmonic distortion - Instantaneous dynamic range - Common mode rejection - Cross talk - Time accuracy |
| Geophone Check | - Impedance - Damping - Natural frequency - Noise |

Subject to technical changes

Overall System Performance and Flexibility

Typical Shot Cycling Time

- 10 seconds @ 1 ms sampling rate, 2 K trace length with 256 channels inclusive data storage; reduced by using multiple USB

Mobile System Control

- via easy to handle standard PC / Laptop

Cables

- Simple low cost two-conductor wire for Snap-on technology or alternatively configured four wire round cable

Connectors

- 55 pin plug analog input connector
- Snap-on connector, four-wired round cable or direct USB 2.0
- Trigger input for direct USB 2.0 version

Disposal information:
Our products are subject to the WEEE directive. DMT has committed itself to take back all electrical and electronic components sold and to dispose of them professionally.
Please contact: products@dm-group.com

WEEE Registration Number: DE 25917380

Earth. Insight. Values.