

The 'Vibration Monitoring System'!



SUMMIT M Vipa

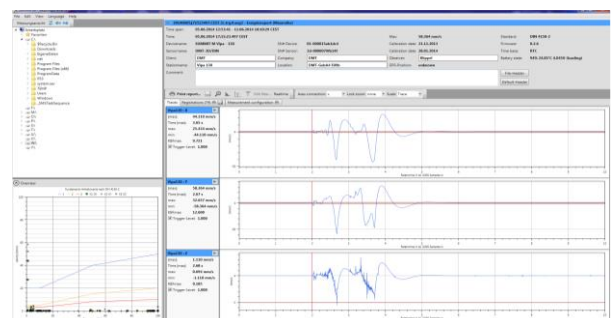
The monitoring system for infrastructure, engineering and microseismic

SUMMIT M Vipa is a three channel seismograph for vibration monitoring with an additional channel for noise monitoring. The units can be linked together to build up a monitoring network. With integrated parameter and data control facilities - SUMMIT M Vipa provides structural vibration monitoring according to all common standards. 24 bit technology ensures ultrasensitive vibration monitoring for continuous and event based recording. SUMMIT M Vipa comes with easy setup routines and long duration batteries.

Mobile Vibration Monitoring!

- Easy to use, lightweight, ruggedized
- 24 bit technology
- 4 GB internal memory, virtually unlimited external storage via USB port
- Internal GPS for time sync
- Internal modem and Ethernet for easy remote access and network setup
- Internal Li-Ion Battery

Windows-based report software



Technical Specifications	
Channels	3 channels (X-, Y-, Z- vibration) 1 aux-channel (acoustic)
Sample Interval	1 kHz, 2 kHz, 5 kHz, 10 kHz
Frequency Range	DC - 5 kHz
Recording Mode	Continuous or event based
Trigger Mode	Amplitude threshold for each channel, Trigger also on KB and vector sum
Record length	1 sec to 60 sec per file
Pre-trigger length	0 sec to record length-1
A/D Converter	24 bit
Signal Input Range	± 5 V differential input
Measurement range	175 mm /s with standard sensor DMT-3D/DIN, larger ranges on request
Time synchronisation	Internal GPS module (ext. Antenna), absolute time accuracy : < 10 µs
Data Storage	Internal 4GB or external USB-mass-storage device
Instantaneous Dynamic Range	≥ 113 dB @ 1000 Hz sample rate
Crosstalk rejection	≥ 110 dB (between all channels)
Total Harmonic Distortion	≤ -100 dB
Common Mode Rejection	≥ 105 dB
Gain Accuracy	< 1 % between channels
Data Communication	100base-TX Ethernet, internal HSPA/EDGE/GSM Modem
Internal Battery	Li-Ion, typical life time >60 hours
External Power Supply	9-18 V DC, max 15 W during battery charge
Display	Colour Graphical LCD with 320 x 240 resolution
Dimensions	30 x 25 x 12 cm
Weight	3.6 kg

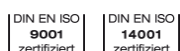
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Environmental Specifications	
Operation Temperature	-20°C to + 70°C
Humidity Range	0 – 95 %
Protection Class	IP 67
Case	Solid waterproof housing deployable in any surface environment

Connectors	
USB	External storage on memory stick or hard disk drive
Ethernet-LAN	Router, switches, PC
Mobile Antenna	External mobile GSM antenna
GPS Antenna	External GPS antenna for precise time stamp
Vibration sensor	- External geophone vibration sensor - 3D sensor or splitted sensors, borehole sensors - 12 V DC power supply provided for active sensors
Acoustic sensor	Microphone plug
Digital IO	Multipurpose IO for accessories (alarm devices, trigger devices,..)
Serial IO	External RS232, e.g. for external modem
Power	External 9-18 V DC power supply

Specifications may be subject to technical changes

Available Extension / accessories	
Seismology Extension	Increased sensitivity and dynamic range of up to 122 dB, additional sample rates: 125 Hz, 250 Hz, 500 Hz
Printer	External serial protocol printer
Alarm switch	External Relays to switch external alarm devices, can be operated either via digital I/O interface of VIPA or remotely via mobile network (requires SIM-card)
Intelligent Sensor Supply	External sensor supply for connecting third party ICP-type sensors