



signed by engineers who actually use them!

V901(P) Seismograph



Range of Application:

- ▬ Blast Monitoring
- ▬ Near -field blast analysis
- ▬ Pile Driving
- ▬ Construction activity
- ▬ Demolition activity
- ▬ Heavy transportation
- ▬ Bridge monitoring
- ▬ Structural analysis
- ▬ 4 or 8 Channel data
- ▬ Remote monitoring

- Fast built-in Thermal Printer
- Can print single or multiple copies of same event
- Impulse mode for blast monitoring
- Continuous mode for piling, rail and road traffic monitoring
- Tri-axial geophone sensor - option for second tri-axial sensor

- Features:**
- Triggering from 0.1 mm/s
 - Auto range from 0.1 mm/s to 200 mm/s
 - Auto record length from 2 to 18 seconds (in impulse mode)

- Can trigger and record PPV, acceleration or displacement parameters
- Air overpressure from 100 to 140 dB Linear Peak
- Memory for about 300 events or 30 days continuous recording
- Battery operated, uses 2 Alkaline 'D' cells (or external 12 volt supply)
- Built in timer function
- Instant readout and review of memory event results on LCD
- Download to PC using RS232 or USB cable and Windows™ based software

- Options:**
- Second Tri-Axial Geophone Pack
 - Two Stage Audible and Visible Alarm
 - Landline / GSM Modem
 - Air over Pressure Microphone
 - Vibration Dose Value Transducer

- Accessories Included:**
- 1 x tri-axial geophone pack
 - 1 x shoulder bag
 - 1 x instruction booklet
 - 1 x battery charger
 - 1 x download lead & plotting software
 - 1 x thermal paper roll fitted (plus 2 spare)
 - 1 x calibration certificate





V901(P)

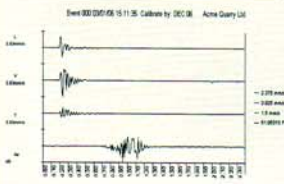
General specifications of V901(P) seismograph

- Power Source:** Two Alkaline 'D' cells (or external 12 volt supply)
- Battery Life:** Up to 20 days continuous monitoring
- Dimensions:** 300mm x 250mm x 130mm
- Weight:** 3.6 Kg (with one tri-axial transducer pack)
- Temperature:** -10°C to + 50°C

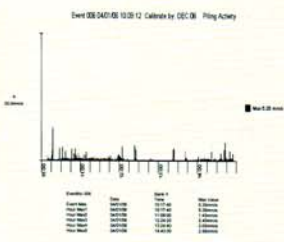
Example Print Outs



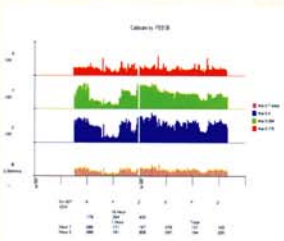
Seismograph printout



Trigger Activity



Piling Activity



VDV Activity

Technical specifications of V901(P) seismograph

- Number of channels: 4 (optional 7)
- A/D conversion: 1 millisecond each channel
- A/D resolution: 10 bit to 13mm/S then 10 bit to 200mm/S
- Resolution: 0.012mm/S to 13mm/S then 0.2mm/S
- Transducer: 3 component geophone pack
- Natural Frequency: 4Hz
- Length of extension cable: up to 1000metres
- Airblast microphone: Omnidirectional from 1Hz to 300Hz
- Seismograph power: 2 number D cells (Alkaline battery)
- External power: 12V DC
- Memory: Non volatile
- Memory size: about 300 short trigger events or 30 days
- Communications protocol: Continuous or any combination of these
- Measurement parameters: 8 bit no parity 9600 baud
- EMC compliance: Peak particle velocity (mm/S)
- Communications port: EN 61010, EN50 081, EN 50, 082
- Acceleration: RS232
- Displacement: (g)
- Air Overpressure: (mm)
- Instrument protection: (dB)
- Transducer protection: IP65
- Conformity: IP67
- Environmental: CE
- Printer Specifications: IEC 68-2



Printer Specifications:

- Print type:** Thermal printout
- Speed:** 20-25 seconds (typically) to print event data and graph
- Capability:** Can print single or multiple copies of same event
- Battery:** Independent battery operation – allows monitoring to continue if printer battery requires charging



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