

VIBRATION

Hire rate
Per week
Per month

Competitive rates
available for long term
hire

DIAGNOSTIC INSTRUMENTS DI2200 Real Time FFT Analyser

Code
111 H

£248 pw
£743 pm

The DI2200 is a truly portable FFT Analyser
Dynamic Range 70 dB - Time Domain
Dual Channel
Real Time bandwidth up to 20 kHz
FFT or 1/1 & 1/3 Octave Analysis
Data transfer to/from a PC

Order front end accelerometer or microphone separately
Load specific applications using a DI-CARD™
Memory card facility is provided to allow data/set-up storage
RS232 Interface



LTR CARD Long Time Record - Collects data to Memory Card (Allows VDV measurements with HVLab software)

Code
112 A

£28 pw
£83 pm

DI BALANCING CARD Turns a DI analyser into a dedicated tool for on site balancing

Code
113 A

£28 pw
£83 pm



DI HT-2 Permanent Mount Tacho - Provides TTL comp. pulse train output from the retroreflective optical source

Code
114 A

£31 pw
£92 pm



IMPACT HAMMER Fitted with B&K Force Transducer 8200, use with B&K 2635 Charge Amplifier

Code
115 B

£72 pw
£215 pm



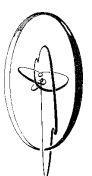
EPM VIS-015 Hand-Arm Vibration Meter

Code
116 D

£149 pw
£446 pm

- o Dedicated meter reading, the proposed EUPAD directive
- Three measurement ranges: 0.003 to 10, 0.01 to 30, and 0.03 to 100 m/s²
- Up to 99 measurement runs of data, with up to 7 separate vibration measurements collected in each run

AC output signal to digital recorder
Measure both instantaneous vibration levels and equivalent 8 hour exposure
RS232 port for computer download/direct print capability
Frequency range 0.8 Hz to 5 kHz (10%)



VIBRATION

Hire rate
Per week
Per month

Competitive rates
available for long term
hire

NOMIS Seismograph 5000 Series

Code
117 F

£115 pw
£345 pm

Portable battery or mains powered vibration monitor
Rugged weather-proof case
Simple and clear operation
Measures Peak Particle Velocity (PPV) in all three orthogonal directions simultaneously
Results are output directly to a paper printer

Trigger or continuous modes
Prints maximum PPV over regular interval in continuous mode
Additional options include alarms and disk drives.
Fourth channel is either air over-pressure or single direction geophone



NOMIS 5000 Alarm Interface Option Aural and/or visual alarm of trigger levels

Code
118 A

£65 pw
£195pm

NOMIS 5000 Disk Drive Option 3.5" floppy drive for record of trigger results

Code
119 B

£28 pw
£83pm

NOMIS 5000 Low Level Range Expander Gives sensitivity down to 0.001 mm/s

Code
120 B

£39 pw
£116pm

NOMIS 5000 Remote Control Option Seismograph operation via PC and modem

Code
121 B

£94 pw
£281pm

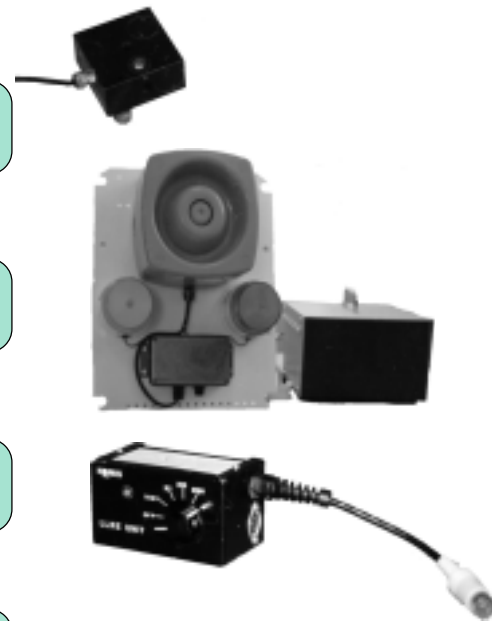
VIBETRACKER Miniature Vibration Monitor

Code
122 A

£61 pw
£182 pm

Compact and rugged single direction vibration transducer with in-built data logger
0.6 to 50 mm/s range
0.2 mm/s resolution
Vibration sensitive range <5 Hz to >1 kHz

Battery powered
15,800 readings
Recording intervals 1sec to 4.5 hours
RS232 port for computer download/direct print capability
Overall dimensions 74 x 57 x 34 mm



VIBRATION

Hire rate
Per week
Per month

Competitive rates
available for long term
hire

CUSTOM PC DATA ACQUISITION

Code
123

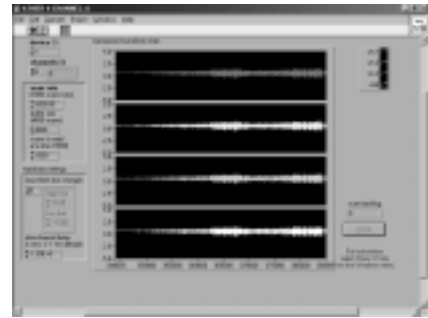
£ p.o.a.

Virtual Instrument working within LabVIEW™.

The instrument is developed to suit the clients specific acquisition, storage, and presentation requirements.

Can be configured to monitor any voltage output transducer (e.g. wind speed, temperature) simultaneously with vibration monitoring.

Requires lead time to configure - call to discuss your requirements.



BRÜEL & KJÆR 2635 Charge Amplifier

Code
124 C

£95 pw
£284 pm

Frequency range 0.2 Hz to 100 kHz
High sensitivity 0.01 mV/pC to 10 V/pC
3-digit conditioning to transducer sensitivity
In-built integrators for velocity and displacement

In-built test oscillator
Selectable low and high frequency limits
Output signal for recorder (digital, tape or level)
Battery operated (90+ hours life)



BRÜEL & KJÆR NEXUS Conditioning Amplifier

Code
125 B

£85 pw
£255 pm

4 channel device powering B&K accelerometers
Selectable gain

BNC input & output
Battery powered



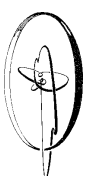
BRÜEL & KJÆR 2525 Measuring Amplifier

Code
126 D

£160 pw
£406 pm

Manual and automated measurements of vibration levels
Production quality control
Selectable low and high pass filters
Option for user-defined filters
RMS, +peak, -peak, peak-to-peak meter functions with read-out in metric or imperial units
Level monitoring with alarm output
Wide dynamic range: 100 dB

Auto-range function on gain
Detector DC output
Built-in test oscillator
Signal integration for velocity and displacement
Charge and Deltatron inputs
IEEE-488 and serial interfaces
Connector for external filters
Analogue setting and overload indicators



VIBRATION

Hire rate
Per week
Per month

Competitive rates
available for long term
hire

BRÜEL & KJÆR 4399 Deltatron Accelerometer

Code
127 A

£25 pw
£75 pm

General purpose for use with DI2200 analyser
Integral pre-amplifier

Frequency range 1 Hz to 14 kHz
Range 0.010 to 7.50 m/s²
Weight: 18.2g



BRÜEL & KJÆR 4378 Accelerometer

Code
128 B

£55 pw
£165 pm

High sensitivity for use with B&K 2525 and 2635,
or PC / DI2200
Sensitivity 32 pC/ms²
Frequency range 0.1 Hz to 4.5 kHz

Dynamic range 0.05 mm/s² to 5000 m/s²
Weight: 175g
Complete with 1.2m cable



BRÜEL & KJÆR 2646 Optional Deltatron Line Drive - Use with B&K 4378

Code
129 A

£23 pw
£69 pm



BRÜEL & KJÆR 4375V Shock Accelerometer

Code
130 A

£53 pw
£158 pm

High frequency shock accelerometer
Ideal for use in confined spaces and on delicate
structures
Use with B&K 2635 charge amplifier

Frequency range: 0.1 Hz - 16.5 kHz
Integral cable
Weight: 2.4g (excluding cable)



BRÜEL & KJÆR 4294 Calibration Exciter

Code
131 D

£97 pw
£290 pm

Hand held vibration reference
Recommended for use with the B&K 2635, PC
based systems

Fixed acceleration level of 3.16 m/s² rms, at a
fixed frequency of 159.15 Hz
Maximum accelerometer weight: 200g



DIGITAL RECORDERS

Hire rate
Per week
Per month

Competitive rates
available for long term
hire

SONY TCD-D7 DAT Recorder

Code
132 B

£105 pw
£318 pm

1 channel
Microphone and Line input
Up to 2 hours recording time

20 Hz to 22 kHz bandwidth
Mains or battery operation



SONY TCD-D10 Pro II Dat Recorder

Code
133 C

£160 pw
£468 pm

2 channel recorder
20 Hz to 22 kHz bandwidth
Microphone and Line input

Mains or battery operation
Digital I/O
RS232C interface



RACAL StorePlus VL-16 Tape Recorder

Code
134 K

£603 pw
£2034 pm

Will record 16 channels on standard VHS
cassette
Graphic display shows all set-up parameters
15/32 to 30 i.p.s. tape speed
Functions include: Track sequencing,
waveform display and real-time clock/
calendar

Can be configured as an 8 channel recorder
Range DC to 100 kHz
IB, WB1 or WB2 recording
Records data, time code, identity and
voice annotation



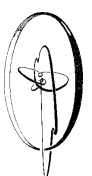
NATIONAL INSTRUMENTS DAQ Card-AI-16E-4

Code
135 D

£157 pw
£471 pm

Data Acquisition Card for PCMCIA slot
Software drivers
Analogue and digital triggering
16 single ended / 8 differential channels
12 bit resolution of analogue inputs

Software selected gains
8 digital I/O channels
Use VirtualBench software (p.22)
250 kSamples/sec total



EXAMPLE PC DAQ SYSTEM

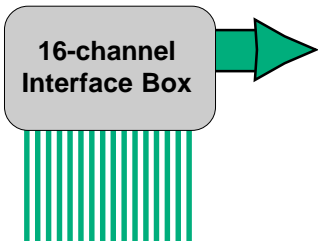
Hire rate
Per week
Per month

Competitive rates
available for long term
hire



Laptop or desktop PC, fitted with PCMCIA Data Acquisition Card, and running LabVIEW software. Bespoke LabVIEW programs can be written to match the customer's specific requirements.

Signal processing capabilities include mathematical operations, frequency analysis, and data logging. Possible programs are - multichannel data acquisition, VDV measurement, automated 'permanent' noise/vibration/environmental monitor.



16 inputs from any voltage source. e.g. output from B&K 2635 Charge Amplifier, Kemo Anti-Alias Filter / Conditioner, or any other equipment with voltage outputs, such as sound level meters, weather vanes, electrolevels etc.



Among the many sensors that can be connected to a B&K 2635 are the B&K 4378, an accelerometer with a high sensitivity and low frequency response; the B&K 4375V miniature accelerometer, and the B&K 8103 hydrophone.



The Kemo also supports ICP powering of transducers. Possible sensors therefore include the B&K 4399 Deltatron accelerometers, or the B&K 4378 when used with a B&K 2646 line driver.

