



Application

- Signal conditioning in laboratory or field with IEPE compatible piezoelectric sensors for acceleration, force or pressure and IEPE
- Front end for PC based data acquisition systems

Properties

- Low cost solution for multichannel applications
- Wide frequency range from 0.1 Hz to 100 kHz
- Plug-in high pass, low pass and integrator modules
- Shared output for outputs 1 to 8 at rear panel
- Overload and sensor indicator LEDs for each channel
- Operation with mains plug adapter or DC supply
- 19" rack mounting enclosure with low depth

Technical Data

Measurands and Ranges

| | | |
|------------------------------------|--|-------|
| Vibration measurands | Vibration acceleration | |
| | Vibration velocity/severity; with FBV integrator module | |
| | Vibration displacement; with FBD integrator module | |
| Voltage gain | 1; 10; 100; 1000 | |
| Gain selection | Push buttons | |
| Accuracy | ± 1 (5 to 100 % full scale; band center; 0 to 30°C) | % |
| Cross-talk attenuation | >80 | dB |
| Output noise | <0.4 (0 dB; 0.1 to 30000 Hz) | mVRMS |
| | <5 (20 dB; 0.1 to 30000 Hz) | mVRMS |
| | <6 (40 dB; 0.1 to 30000 Hz) | mVRMS |
| | <10 (60 dB; 0.1 to 30000 Hz) | mVRMS |
| Lower frequency limit acceleration | 0.1 | Hz |
| Lower frequency limit velocity | 3 (with FBV integrator module) | Hz |
| Lower frequency limit displacement | 5 (with FBD integrator module) | Hz |
| Upper frequency limit acceleration | 100 to 100000 (with FB2 low pass module) | Hz |
| Upper frequency limit velocity | 1000 (with FBV integrator module) | Hz |
| Upper frequency limit displacement | 200 (with FBD integrator module) | Hz |
| Indicators | Graphical LCD for setup | |
| | 2 gain LEDs per channel | |
| | 8 IEPE LEDs: OK; cable break; short circuit | |
| | 8 LED for overload | |

Connectors

| | | |
|-----------------------|-------------------------|----|
| Input channels | 8 | |
| Input signals | IEPE | |
| | AC voltage | |
| Input connector | 8 x BNC front | |
| IEPE constant current | 3.5 to 4.5 | mA |
| Output connector | 8 x BNC front | |
| | ± 10 V | |
| | Impedance <100 Ω | |

Power Supply

| | | |
|-------------------------|-------------------------|-----|
| External supply voltage | 10 to 28 | VDC |
| External supply current | <1500 | mA |
| Supply connection | DIN 45323; 1.9 mm; rear | |

Case Data

| | | |
|-------------------------------|---|----|
| Dimensions without connectors | 483 x 44 x 124 (W x H x D) | mm |
| Case material | Aluminum, hard anodized | |
| Weight | 1700 | g |
| Operating temperature range | -10 to 50 (95 % rel. humidity without condensation) | °C |

Scope of delivery Mains plug adapter 115/230 VAC; 15 VDD; <1600 mA

Optional accessories

- FB2-xx low pass modules
- FB3-xx high pass modules
- FBV single integrator module
- FBD double integrator module



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