

The eentec **DR-5000-A** is the latest version the rugged, *ultra low power, high-performance, versatile 31-bit digital accelerograph line*. Combines the DR-5000 digitizer and EA-120/EA-126 FBA in single housing.

It is designed for the most demanding requirements in high performance seismic or strong motion research.

- **31 – bit high resolution ADC, EA-130/EA-126 accelerometers inside**
- **Dynamic range 134 dB(100Hz), 137dB(50Hz)**
- **MINISEED, SEEDLINK, ring buffer, STA/LTA**
- **Easy WEB-interface, smartphone compatible**
- **Ethernet, Wi-Fi, 3G networking**
- **Internal GPS/Glonass/Beidou receiver with excellent timing**
- **Internal high capacity battery with charge controller**
- **Small size, lightweight**
- **Low power**



The powerful, full-featured single-board system is easy to use, install, and maintain. It is lightweight and robust for field deployment. This state-of-the art seismic standard recorder features up to 3 external sensor inputs. Each channel has a high resolution ADC that ensures no channel to channel skew in any configuration, and a very low-power, high-performance 32 bit RISC that controls the data acquisition, real-time digitization and filtration. Other options include a serial port, 3G modem, and internal battery pack with charger.

SPECIFICATIONS	DR-5000-A
Channels	3 (or 6 for external sensors)
ADC	31 bit, individual for each channel
Sampling rates	1*,10*,20*,25,50,100,125*,200,250,400*,500,800*,1000,2000*,4000*Hz
Gain G	1, 2, 4, 8, 16, 32, 64
Input voltage (diff., G=1)	± 20 V (opt. ± 2.5 V, ± 10 V)
Dynamic range @100Hz, RMS-FS, G=1	134 dB
Dynamic range @50Hz, RMS-FS, G=1	137 dB
Dynamic range @1Hz, RMS-FS, G=1	148 dB
External power supply	9-28 VDC
Internal battery	Li-pol battery for 12-24 hours operation
Power consumption	< 2 W (rec, 6 ch, Ethernet on)
Memory type	microSD, 2pcs, for system and data
Memory size	32 GB (64,128 GB options) FAT32/EXT4
Data format	miniSEED
User interface	WEB, smartphone compatible, SOH monitoring
Networking	Ethernet 10/100 (opt. WiFi 802.11b/g/n,GPRS/3.5G, USB 2.0**,RS232)
Ethernet protocols	HTTP, SCP, SSH, FTP***, Telnet***, Seedlink
Data streaming	Seedlink 3.1, compatible with Seiscomp, EarthWorm, Geopsy etc.
Temperature range	-40 .. +85 °C
Alarms(optional)	4 levels, 4 relays
Recording	continuous or Level, STA/LTA triggers
Timing stability (-25..+60°C)	±0.3 ppm, GPS/Glonass/Beidou or NTP(opt.)
Input impedance	100 kOhm 1000 pF
Power for sensors	12V, 1A (opt. ±12V, ±15V, 24V)
Environmental	IP68
Dimensions, mm	158 x 158 x 100
Weight	1.6 kg (with EA-130), 1.8 kg (with EA-126)

* optional
 ** without Wi-Fi or 3.5G
 *** without SCP / SSH