



NDAS-8226

6-channel seismic data logger

NDAS-8226 is a seismic data acquisition system mostly designed for autonomous data recording in field environment.

NDAS-8226 is based on a 6-channel 24-bit resolution ADC ensuring low noise and low power consumption. The device uses USB and Wi-Fi connection for data transfer and system configuring and 32Gb internal storage memory for autonomous recording.

The system includes a precision regulated VCO quartz crystal with the real-time GPS/GLONASS clock adjustment. This provides synchronization accuracy better than 1 μ sec timing error.

The housing of the device is rugged and waterproof. The system does not require any maintenance and is well suited for field seismic and seismological works as well as for permanent seismic stations.

NDAS-8226 is perfectly compatible with the R-sensors product lines of CME, MTSS and METR series as well as any third-party equipment.



www.nordlab.com
info@nordlab.com

Technical specifications

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ADC type	Sigma-delta
Number of channels	6
Input range at gain = 1	±4 V / ±16 V Software selectable Differential input
Gain coefficients	1, 2, 4, 8, 12 Software selectable
ADC sampling rate	1, 10, 50, 100, 250, 500, 1000 Hz
ADC resolution	24 bit
ADC noise performance @100Hz, G=1	22 ENOB
Calibration facility	Pulse and sine signal
GNSS receiver	GPS / GLONASS
GNSS timing accuracy	< 1µS
Data recording mode	Continuous, Schedule
Data recording format	Internal binary miniSeed, SEG converters provided
Data storage	32 Gb MicroSD storage
Data transfer	High-speed USB 2.0 Wi-Fi IEEE 802.11b/g/n
Temperature range	-40 ... +85 °C
Input impedance	100 kOhm 1000 pF

Electric specifications

Standard supply voltage	9-36 V DC or 5 V DC from USB port
Power consumption during stand-alone recording	< 600 mW
Power supply for active sensors	12 V, 100mA max (only from 9-36V DC supply)

Mechanical specifications

Connector type	2 x 10-pin IP-68 (2PMГ22Б10Ш type) analogue connectors 7-pin IP-68 (2PMГ18Б7Ш type) power connector SMA-A for active/passive GPS/GLONASS antenna SMA-A for Wi-Fi antenna Amphenol Straight Panel Mount USB-B
Delivery set	Standard 1.5m USB A-B cable 3m active GPS/Glonass antenna Wi-Fi antenna SMA A/B adapter 32GB microSD card installed Operation manual
Weight	1000 g
Dimensions	160x140x80 mm
Case	Aluminum waterproof housing