


**Recorder / NUBE**

**Physical Parameter**

| | |
|---|---|
| Size | (W) 10.0 cm x (H) 8.8 cm x (D) 12.3 cm |
| Weight | 1.06 kg without / 1.34 kg with D-cell batteries |
| Operating temperature | -40 - 60°C |
| Waterproof | 1 m water 48 h |

**ADC**

| | |
|---|---|
| Channels | 3, upgradeable to 6 |
| Type | 24 bit Delta-Sigma |
| Full scale input | 4.098 Vpp @ gain 1 |
| Preamp gain | 1, 2, 4, 8, 16, 32, 64, 128 |
| Sample rate [sps] | 25, 50, 100, 200, 250, 400, 500, 800, 1000, 2000 (4000 experimental) |
| Resolution (typical) | 21.7 bits @ 100 sps - gain1 - low power mode |
| Dynamic range (typical) | 130.8 dB @ 100 sps - gain1 - low power mode |
| Input impedance | 100 kOhm |

**Time Base**

| | |
|---|---|
| GPS | built-in GPS or external GPS antenna |
| Timing accuracy | <0.01ms with processing and GPS reception (~1 minute) at least once a day |

**Interface**

| | |
|---|---|
| Type | real-time monitor out // serial auxiliary in-out // 3 LED system status |

**Data Storage**

| | |
|---|---|
| Storage type | SDHC card, exchangeable via flap |
| Capacity | up to 2TB (tested up to 512 GB) |
| Recording data format | raw data, continuous recording |

**Data Conversion**

| | |
|---|---|
| Post processing | conversion from raw format to MiniSEED or SEGY, software provided |

**Internal Power**

| | |
|---|---|
| Batteries | 2 alkaline D-cells |
| Runtime | max. runtime up to 15 days (cycled internal GPS) |
| Power consumption | 112 mW @100sps + cycled internal GPS |

**External power**

| | |
|---|---|
| Input supply range | 4.5 - 36 V |
| Power consumption | 128 mW @ 12V + 100sps + cycled internal GPS |

**Connectors**

| | |
|---|---|
| Sensor | MIL-C-2684 A12-10S |
| Power / Communication | MIL-C-2684 A10-07P |
| External GPS antenna | BNC female |