

Moving sensor AXsens

Accelerometer with variable sensitivity and a choice of any of the three axes of measurement, NeoSens-compatible.

REF

007-0-229

SET

1. Moving sensor AXsens,
2. Fastener,
3. User Manual.



DESCRIPTION

AXsens is an accelerometer with variable sensitivity and a choice of any of the three axes of measurement.

AXsens can be used as part of a system for scientific research in biomedicine, in clinical polygraph tests and somnography.

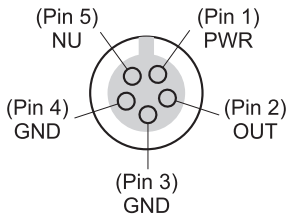
The electrical parameters of the sensor and the design of the output connectors make it possible to connect it directly to biopotential amplifiers - electrocardiographs, ambulatory ECG monitors, electroencephalographs, polygraphs.

SPECIFICATION

| Parameter | Value |
|----------------------------------|---|
| Acceleration measurement axes | orthogonal X, Y, Z |
| Output at 0 G* | 1.65 ±0.2 V |
| Sensitivity on selected range* | S0: 660 ±40 mV/G S1: 220 ±30 mV/G |
| Frequency range* | from 0 to 300 Hz along the X, Y, Z axes |
| Noise (0.1Hz-100Hz), p-p* | no more than 5 mV/3 mG |
| Nonlinearity* | no more than ±1% of full range |
| Output impedance | 1.5 kOhm ±5% |
| Maximum permissible acceleration | 3000 G |
| Power | voltage 3.5 to 6 V (±5%), current consumption less than 1 mA |
| Interface cable connector | NeoSens-compatible |
| Case dimensions | 28×32×15 ±0.5 mm |
| Cable length | not less than 120 cm |
| Weight with interface cable | < 50 g |

* At rated supply voltage and temperature 25°C.

PIN LAYOUTS OF CONNECTOR



Connector type 5-pin Binder 719
Series, code 09-9789-71-05
view of the connector from the
cable

| Contact No. | Name | Note |
|-------------|------|---|
| 1 | PWR | sensor power supply +5 V ($\pm 5\%$), up to 15 mA with electronic limitation (protection) |
| 2 | OUT | Output voltage, 0-4V |
| 3 | GND | Ground (Neutral) |
| 4 | GND | Ground (Neutral) |
| 5 | NU | Not used |