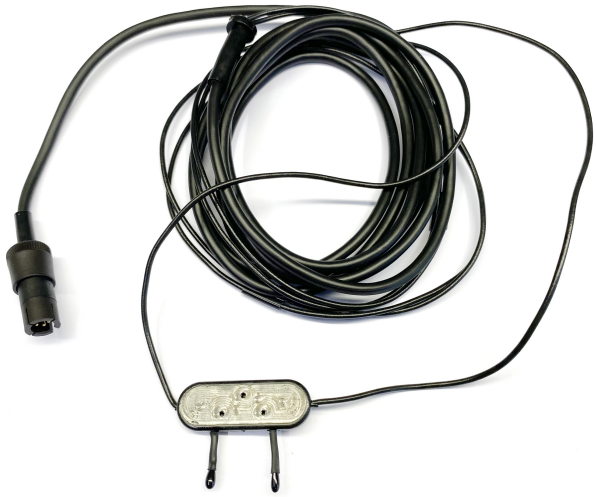
DATA SHEET

Thermistor-based breathing sensor TRsens

Nasal thermometric breath sensor with NeoSens-compatible connectors for a bioelectric signal amplifier.



REF

007-0-230

SET

1. Thermistor-based breathing sensor TRsens,
2. User Manual.

DESCRIPTION

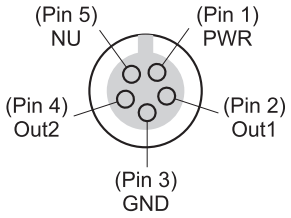
Thermistor-based breathing sensor TRsens is a thermometric sensor for measuring respiration rate.

TRsens is designed for connection to NeoSens-compatible connectors of bioelectric signal amplifiers such as NVX136 or similar.

SPECIFICATION

Parameter	Value
Registered parameter	Temperature change
Number of sensors	2
Method of placing the sensor on the body	on the face in the path of exhaled air by fixing the wires on the back of the head
Sensor type	temperature sensor
Output type	differential
Operating range	from 20 to 50 °C
Transfer characteristic form	linear dependence of output voltage on temperature
Transmission coefficient	50 mV/°C, in operating range (±5%)
Measurement accuracy	±1%
Noise	< 1 µV p-p @ 0.5 to 30 Hz
Supply voltage	5 V (±5%)
Consumption current	< 2 mA
Cable length	1.2 m
Connector for connecting to an amplifier	NeoSens-compatible

Interface cable connector pin diagram



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 (±5%), up to 15 mA with electronic limitation (protection)
2	Out1	Positive terminal of differential input, 0-4 V
3	GND	Ground (Neutral)
4	Out2	Negative terminal of differential input, 0-4 V
5	NU	Not used