

RESPsens-MRI sensor

MRI-compatible breath sensor for NeoSens-compatible bioelectrical signal amplifier.

REF

007-0-239

SET

1. RESPsens-MRI sensor,
2. chest belt,
3. User Manual.



DESCRIPTION

RESPsens-MRI sensor consists of a membrane pressure sensor and a recording pressure-to-voltage converter.

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

RESPsens-MRI can be used in the magnetic resonance imaging (MRI) area.

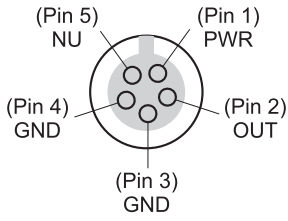
Getting started

- Place the membrane sensor on the patient's chest and secure it with a chest belt.
- Connect the RESPsens-MRI to the amplifier,
- Use a bulb to create the necessary pressure.

SPECIFICATION

Parameter	Value
Registered parameter	Change in chest volume
Number of sensors	1
Method of placing the sensor on the body	on the chest with a belt
Sensor type	pressure sensor
Measurement type	relative
Operating range	from 0 to 40 kPa
Measurement accuracy	2.5% of range
Frequency range	0 to 10 Hz (-3dB)
Recorded signal amplitude	up to 90% of supply voltage
Supply voltage	5V (±5%)
Consumption current	< 10 mA
Cable length	1.2 m
Connector for connecting to an amplifier	NeoSens-compatible

Interface cable connector pin diagram



Connector type 5-pin Binder719
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