

ABOUT THE RespiV6 to ODU

The RespiV6 module processes changes in inductivity of an inductive plethysmography belt. It can be used with a TMSi signal acquisition devices with an ODU AUX input.

The intended use of the RespiV6 is to measure respiration due to changes in chest or abdomen size. The module is not intended for diagnostic purposes.

When using more than one band on the same subject you must use RespiV6 modules with different base frequencies to prevent interference between bands. The TMSi portfolio has RespiV6 module variants with standard (REF: 95-0200-0106-12), Shifted1 (REF: 95-0200-0106-13), Shifted2 (REF: 95-0200-0106-14) and Shifted3 (REF: 95-0200-0106-15) base frequency for up to four bands on a single subject.



Notes

- To put the output values into perspective: an adult band around a male chest with circumference changing in the range from (100 to 101) cm during normal breathing will yield an output of approximately 5 mV. With 22-24 bit ADC's on TMSi amplifiers this means that 12-14 bits are available for the signal. Smaller (paediatric) bands will usually have a smaller circumference change but also a higher output per nH. XXL bands vice versa.
- The output may vary across RespiV6 modules and subjects up to 50 %, therefore unless calibrated per subject this module is not well suited for absolute measurements.
- With any question regarding this product or this datasheet please contact support@tmsi.com.

Maintenance

The product requires no maintenance. It may be cleaned, if deemed necessary, as follows:

- Before cleaning make sure the product is turned off and not in contact with a patient.
- Only use tap water, if necessary with a mild detergent, applied through a soft damp cloth.
- Never use aggressive chemicals for cleaning.
- Do not sterilize the product.

Contact Information TMSi

TMSi Support can be reached via email (support@tmsi.com) or by phone during office hours (CET). When you send us an email, please provide as much information as possible, including REF-codes and serial numbers of the used products. You may find the REF code and/or serial number on the device but also always on the package label. The REF code starts with 95 followed by two groups of four digits to identify the product type, it ends with two groups of one- or two digits identifying variant and revision of the product. The serial number always has ten digits.

This will help us to support you in the best way possible.

Contact Information

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Technical Specifications

Physical Data

Size	50 mm x 40 mm x 15 mm
Weight (approximately)	26 g
Material (of the box)	ABS

Electrical Properties

dV/dL Paediatric band	(0.3 to 1.0) mV/nH
dV/dL Adult band	(0.1 to 0.3) mV/nH
dV/dL XXL Adult band	(50 to 200) μ V/nH
Power supply voltage range	(4 to 6) V
Power consumption	<15 mW (10 mW typical at 5 V)
Oscillator frequency	Variable, 400 kHz to 1.5 MHz
Input connectors	Snap 4 mm
Output connectors	ODU 7p