

# Sidestream CO<sub>2</sub> Module



The device is intended for continuous non-invasive monitoring of carbon dioxide (CO<sub>2</sub>) concentration and resting energy expenditure (REE) of ventilated patients.

## Benefits:

- Sidestream CO<sub>2</sub> Module is intended for continuous noninvasive monitoring of inspired CO<sub>2</sub> (FiCO<sub>2</sub>) and end tidal CO<sub>2</sub> (EtCO<sub>2</sub>), respiration rate (RR) and apnea
- Supports intubation confirmation, weaning, CPR effectiveness, leak detection, and hypermetabolic state monitoring
- No calibration needed, module is ready to deliver accurate readings immediately after warm-up
- Adjustable flow rate (50–250 ml/min) with  $\pm 10\%$  accuracy ensures consistent waveform quality
- Stable performance even in the presence of anesthetic vapors, humidity, and other gases

## Technical Specification

Operation principle	Non-dispersive infrared spectrophotometry (NDIR)
Initialization time	10 s
Time of setting the operating mode	120 s (at ambient temperature 25°C)
Gas sampling rate accuracy	50–250 ml/min $\pm 10$ ml/min in absolute terms or $\pm 10\%$ in relative one (the biggest from the values)
CO <sub>2</sub> concentration measurement range	0–20 vol.% (resolution 0,1) 0–150 mmHg (resolution 0,1)
CO <sub>2</sub> measurement accuracy	$\pm(0,2 \text{ vol.\%} + 0,02 \cdot K_{\text{meas}})$ or $\pm(1,5 \text{ mmHg} + 0,02 \cdot K_{\text{meas}})$
Measurements drift	$\pm(0,2 \text{ vol.\%} + 0,02 \cdot K_{\text{meas}})$ or $\pm(1,5 \text{ mmHg} + 0,02 \cdot K_{\text{meas}})$
Response time	~3 s
Rise time	0,2 s
Influence of gas impurities and vapors	$\pm(0,43 \text{ vol.\%} + 0,08 \cdot K_{\text{meas}})$
Respiratory rate measurement range	3–160 breath per minute (BPM)
Respiratory rate measurement accuracy	$\pm 2$ breath per minute (BPM)
Power	Voltage: 5.0 V $\pm 5\%$ Capacity: 1.5 W, maximum 4 W during warming
Weight	0,5 kg
Dimensions(without cable), width x height x depth	58x92x146 mm
Without housing	117x44x70mm, 0,25 kg
Connector	Lemo Redel / ODU
Interface	RS-232

## Delivery kit

Sidestream CO <sub>2</sub> Sensor	TESN.943129.008-01	1 pcs.
Connector	15M-22M/15 REF2713 or 15M-22M/15 010-638 Flexicare	*
Monitoring line	TESN.943129.008-01	1 pcs.
Water trap	60-1300-00 DRYLINE	1 pcs.
Interface cable	TESM.704021-03	1 pcs.

\*The items and quantity of the accessories and documents are specified at the order.

## Contacts

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