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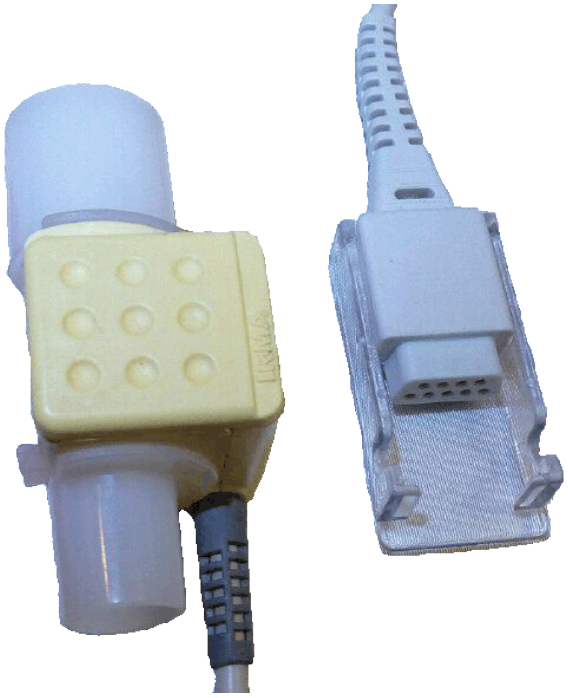
Technical Datasheet – Solid State Capnography Module



The Solid State Capnography (SSC) modules designed by Lakome Medical Inc, provides reliable medical respiratory monitoring and measurements for clinical environments.

Main features:

- 100% galvanically isolated from patient
- Compatible with standard clinical monitoring units
- No moving parts.
- High Accuracy - <1 ppm
- Automatically adjusts to altitude variations
- Low power consumption – 800mW
- Compatible with present capnography tubes

The developed SSC module is 100% galvanically isolated from the patient and offers a complete solid state solution with no moving parts. This is achieved by utilizing high durability MID-Infrared LED and dual sensor technology. The dual sensing technology provides many benefits including:

- Improved accuracy
- Rejection of signal interferences from other gases
- Improved insensitivity to temperature and altitude variations

The SSC module is also equipped with an atmospheric pressure sensor to accurately calculate CO2 percentage values.

The SSC module has a serial port connector which is compatible with most modern day clinical monitors. This module is powered up from a 6V supply which is provided externally by the clinical monitor units through the serial port connector.

Further detailed specifications of the device is provided in table 1.

Table 1. Device parameters

Maximum Power consumption	800 mW at 6V	mW
Maximum sinked current	90mA at 6V	mA
Maximum Input Voltage	15	V DC
Minimum Input Voltage	2.5	V DC
Optimal Input voltage	6	V DC
Communication protocol	RS232 serial	
Data line voltage level	∓ 6	V DC
Accuracy	<1	ppm
Frames per Second	0.12	Frames/second
Samples per frame	1000	Samples/frame
Sample rate	120	Samples/second

The figure below displays a close view of the capnography module.

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