Viamed Limited - 15 Station Road - Cross Hills
Keighley - West Yorkshire BD20 7DT - United Kingdom
Tel: +44 (0)1535 634542 Fax: +44 (0)1535 635582
Email: info@viamed.co.uk www.viamed.co.uk

Hardware Block Diagram
Multi Parameter Monitors
Capnograph Mainstream/Sidestream/Multigas

Rev. 1

1. Product Identification

Description: **Handheld Multi-Parameter Monitors**	Models:
	Capnograph VM-2500-M (Mainstream CO_2/SpO_2)
	Capnograph VM-2500-S (Sidestream CO_2/SpO_2)
	Multigas Monitor VM-2500-MG (CO_2, N_2O, HAL, ENF, ISO, DES, SEV /SpO_2)
Technical Specification:	-

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Additional Specification:	-

2. Table of difference in models

CO_2 Model	**Capnograph Mainstream**	**Capnograph Sidestream**	**Multigas Monitor**
Name	IRMA CO_2	ISA CO_2	IRMA AX+
Implementation	External Analyzer	Internal module	External Analyzer
Interface to device	4-Pin connector	Gas inlet	4-Pin connector
Gas outlet	Non (airway adapter)	At back of housing	Non (airway adapter)

3. List of critical components in power supply circuit

Component	**Manufacturer**	**Model**	**Technical data**
Power supply unit	Friwo	FW7660M/06 Q061389	In: 100-240 VAC, 50-60Hz / 250mA, Out: 6VDC / 1.4A
Battery (non-rechargeable)	Several	AA	4 x 1.5V
Rechargeable Li-Poly battery	Viamed Limited Labelled	743250*2 / 3.7V (CT-2500 Labeled)	3.7V; 2500mAh, max. charge voltage 4.25V, discharge cut-off 3.0V, 60°C, protection IC S8261
Protection circuit Li-Poly battery	Seiko Instruments	S-8261	Overcharge detection voltage 3.9V to 4.4V; Overdischarge detection voltage 2.0V to 3.0V; 85°C
Charging controller	National semiconductors	LM3658SD	4.5-6Vdc, 0-1000mA, +85°C
PTC1_1A PTC2_1A PTC3_1A	Bourns	MF-MSMF110	6V, Ihold 1.1A, Itrip 2.2 A, -40 to +85°C UL1434, UR (XGPU2.E174545)

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4. Functional Hardware Block Diagram