VM PLUS — Data-Logging Meter

new HAND HELD RECORDING SPIROMETER

- The battery operated VM PLUS is an electronic diary for PEF and FEV_1, suitable for both professional clinic use and single patient use.

- All readings of both PEF and FEV_1 are logged. An audible "beep" facilitates ease of use and helps to ensure correct technique. "BAD" blow software analysis is also built-in.

- Records up to four Event Markers such as medication, symptoms or exercise and registers the exact time of day and full date.

Clement Clarke

VM PLUS Data-Logging Meter

Up to 20 patients' PEF and FEV$_1$ results can be stored concurrently on the VM PLUS for later download and analysis and the machine can memorise over 400 separate readings. The built-in Mini-Wright peak flow meter gives independent reassurance of the validity of the electronic measurements.

The VM PLUS is available calibrated to either ATS Scale or Wright Scale and joins the other quality meters from Clement Clarke.

Measuring Range	15-800 L/Min
Transducer Type	IC piezoresistive pressure sensor
Microprocessor Type	Z80 (2 MH$_Z$)
Memory Size	8K RAM
Digital Display	3$^{1/2}$ - digit LCD
Keyboard	6-key membrane touch panel
Output Port	RS 232
Battery Type	PP3 9v
Power Consumption	250 mW operational
Clock	Quartz controlled on-chip
Measured Parameters	Peak Flow, FEV$_1$
Flow Resistance	12cm H$_2$0 @ 350 L/min

Flow Meter Type	Variable orifice, springloaded piston (Mini-Wright)
Peak Flow Period	10ms
Dynamic Characteristics	Critically damped at normal profile at 350 L/min
Frequency Response	100 Hz @ 350 L/min
Accuracy	+/- 5% (95% CL) @ 400 L/M
Repeatability	+/- 2% (95% CL)
Size Including Mouthpiece	210 x 120 x 70mm
Weight	420g (15oz) including mouth-piece and battery
Calibration & Inspection	100%
Supporting Software	IBM Compatible, available on 3$^{1/2}$" floppy disk

	Catalogue Number
VM Plus data logging meter (including PC software and computer lead)	
Wright Scale	3109550
ATS Scale	3109575

	Catalogue Number
Adult disposable mouthpiece (100's)	3125030
Paediatric disp. mouthpiece (40's)	3125005
Sterilisable universal mouthpieces (15's)	3103095
Sterilisable universal mouthpieces (4's)	3103054