VIAMED

Requested by	
Name/Position	
Address	
Telephone number	
Origination date	14/March 2001

		Description	Specification	Changes
1		**Intended use**	A small hand held Oxygen analyser with the same quality and accuracy as the VN202 but smaller Sensor built into case	
2		**General specification**		
	1	Height	As small as possible set by DPM/ battery/& sensor	
	1.1	Width	As above	
	1.2	Depth	As above	
	1.3	Weight	As above	
3		**Power requirements**		
	1	AC/DC	DC	
	1.1	Voltage	3volt or 9volt	
	1.2	Frequency	DC	
	1.3	Wattage normal	N/A	
	1.4	Wattage at switch on	N/A	
	1.5	Wattage in sleep mode	N/A	
	2	Battery specification	N/A	
	2.1	Battery life	Auto switch off	
	2.2	Battery size	Standard readily available size	
	2.3	Battery type	Standard readily available	
4		**Physical**		
	1	Colour		
	1.1	Material	ABS or similar	
	1.2	Visual acuity	Large LCD :legends to be readable at 1 mtr at 215 Lux	
	1.3	Mounting	Not applicable hand held	
5		**Environmental**		
	1	Operating Temperature	0 to 40 C	
	1.1	Storage temperature	0 to 30 C continuous 0-50 intermittant	
	1.2	Operating Aatitude	2,4 KM (sensor)	
	1.3	Storage altitude	12.2 K (sensor)	
	1.4	Operating relative Humidity	0 to 95% non condensing	
	1.5	Storage relative humidity	0 to 99 % non condensing	
	1.6	Waterproofing, spill resistance	Splash proof : Dive bags	

	1.7	Cleaning and disinfecting	Soap & water (not sensor)	
6		**Performance**		
	1	Display	LCD	
	1.1	Accuracy	+/- 1% FSD minimum	
	1.2	Resolution	0.1 %	
	1.3	Useage continuous Y/N		
	1.4	Calibration	Manual: still air	
	1.5	User controls	Calibration On/off switch	
	1.6	Stability	Depends on sensor?	
	1.7	Response time	7 secs 90% step 21-100%	
	1.8	External conditions effecting accuracy	EMC, Altitude, Temperature Interfering gases limited by sensor	
7		**Accessories**		
	1	Sampler	Similar VN202	
	2	Sensor		
8		**Standards appropiate**		
	1	IEC606.01		
	1.1	IEC 606-02		
	1.2	IEC 601		
	13	MDD		
	1.4	FDA 510K		
	1.5	ASTM Americam society for testing materials	Specification for oxygen analysers F1462-93 ?	
	1.6	ISO 7767		
	1.7	ANSI American National Standards Institute	?	
	1.8	CSA	?	
9		**Final Design tests required**		
10		**Acceptance test crireia**		
11		**Trial requirements**		
	1	In-house	Use on cylinders	
	1.1	External		
12		**Maintenance**	Minimum	
13		**Packaging**		
	1	Impact resistance	Drop proof NSTA Project 1 10 drops from 30ins onto a concrete surface	
	1.1	Vibration	Must sustain vibration in RIBs NSTA project 1 14.200 vibratory impacts 0.6in displacement	