

smiths medical

surgivet®



SurgiVet® Digital Micro Power Oximeter Board

Identical oximetry board used
in the SurgiVet® Advisor® Vital
Signs Monitor



The Digital Micro Power Oximeter Board is the ideal OEM solution for integrating SpO₂, pulse rate, perfusion index and plethysmogram waveform into any host. The combination of small size, low power and superior performance make it the perfect choice for your OEM needs.

The Digital Micro Power Oximeter Board design is based on the SurgiVet® industry leading Micro Power Board solution, and patented low perfusion technology. The Digital Micro Power Oximeter Board is RoHS compliant and provides incredible performance at a fraction of the size and power of the competition.

The SurgiVet® digital micro power oximeter board is compatible with a full range of veterinary-specific SurgiVet® oximetry sensors.

SURGIVET® DIGITAL MICRO POWER OXIMETER BOARD

The SurgiVet® advantage:

- Low perfusion performance
- Ultra compact size
- Low power consumption
- Full range of veterinary-specific compatible sensors



TECHNICAL SPECIFICATIONS

SATURATION – 70-100% SpO₂⁴		FLAGS		ENVIRONMENTAL SPECIFICATIONS	
No Motion	±2 Arms ^{1,3}	Pulse Beep		Operating Temperature	0° - 55°C
Low Perfusion ²	V1707 ±2 Arms ¹ V1703 ±2.5 Arms ¹	No Tissue in Sensor		Storage Temperature	-40° - 75°C
		Sensor Unplugged		Relative Humidity	15 - 95% (operating, non-condensing) 10 - 90% (storage, non-condensing)
		Searching for Pulse Artifact			
SATURATION – Below 70% SpO₂		Searching Too Long	Flag set after no valid pulse and no greater than 20 seconds of searching for a valid pulse		
Unspecified		Small Pulse	Flag set if the difference between the max and min of the IR pulsatile signal is below a threshold level		
		SERIAL COMMUNICATION LOGIC LEVELS			
PULSE RATE⁴		3.3V CMOS voltage levels			
20-350 bpm with Digital Micro Power Mode					
No Motion	Adult/Pediatric: ±2 Arms ¹				
Low Perfusion ²	Adult/Pediatric: ±2 Arms ¹				
		POWER REQUIREMENTS			
		Power Supply Input Voltage	+3.3V, electrically isolated		
		Typical Current Draw	25mA @ 3.3V (average) [82.5 mW]		
		Recommended Power Supply Bulk Filtering Capacitance	1500uF Low ESR Tantalum or equivalent		
ORDER INFORMATION		DIMENSIONS			
Product Code	Description	Length	1.53 inches (39 mm)		
WWV3711	Digital Micro Power Oximeter Board	Width	0.8 inches (20 mm)		
		Height	0.24 inches (6.1 mm)		
NOTES					
1. Arms - Average Root Mean Square.					
2. Pulse amplitude <1% (high sensitivity mode not enabled). Tested using industry standard simulator.					
3. Tested using industry standard simulator.					
4. High sensitivity mode has unspecified SpO ₂ and Pulse Rate Accuracy.					

For more information visit our website at www.smiths-medicaloem.com or email us at oem.inquiries@smiths-medical.com

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