

# SERVOMEX PARACUBE®

## PARAMAGNETIC OXYGEN TRANSDUCER

Paracube® is the paramagnetic alternative to electrochemical cells for critical care ventilators and neonatal incubators.

For more information go to: [www.paracube.com](http://www.paracube.com)

- Long operating and shelf life
- Daily calibration eliminated due to excellent measurement stability
- Exceptional reliability offered by innovative paramagnetic technology
- Straightforward integration with new or existing equipment
- ISO9001 accredited manufacturing facility



## Specification

Transducer: Paracube®

### PERFORMANCE

Technology: Paramagnetic, diffusion  
 Range: 0-100 O<sub>2</sub>  
 Linearity: 15-100% O<sub>2</sub>: <± 0.2% O<sub>2</sub>  
 0-15% O<sub>2</sub>: <± 0.4% O<sub>2</sub>  
 Repeatability: <± 0.3% O<sub>2</sub>  
 Zero Drift: <± 0.2% O<sub>2</sub> in first 24 hours, then <± 0.2% O<sub>2</sub>/week  
 Response time (T<sub>10</sub> - T<sub>90</sub>): < 14 seconds

### OUTPUTS/CONTROLS

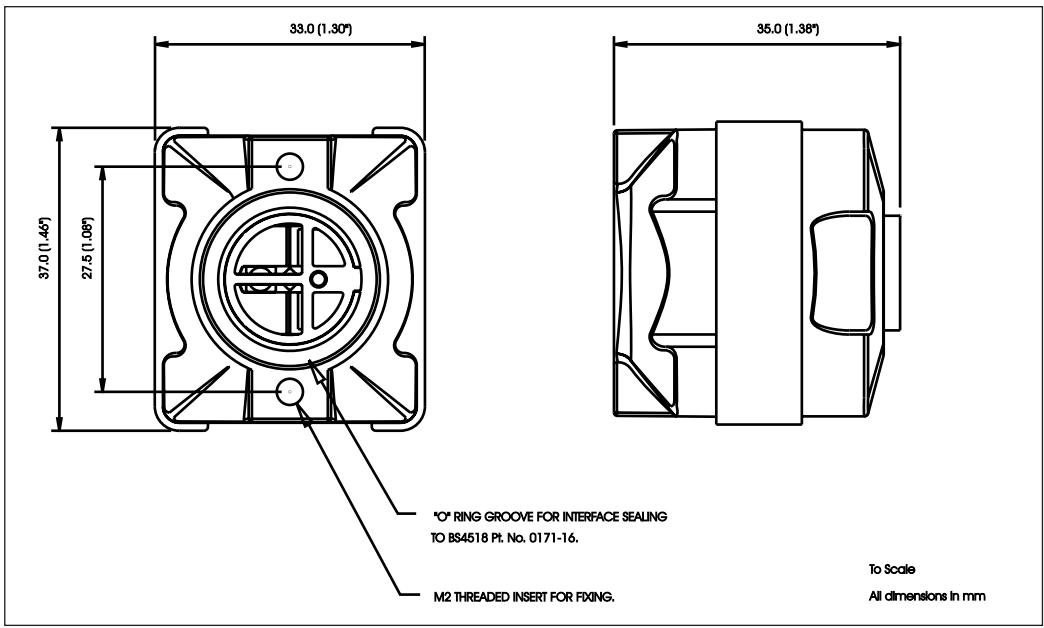
Signal Output: Serial, full duplex UART

### PHYSICAL

Weight: 50 gms  
 Dimensions: 31 x 35 x 35mm  
 Diffusion Port: Diameter: 14mm, 'O' ring seal secured by M2 screws - 2 positions (1µm filter fitted)

Specification continued

Transducer:	Paracube®
SAMPLE CONDITIONS Sample Gas condition:	Clean dry medical grade air/oxygen mixtures <sup>1</sup>
AMBIENT CONDITIONS Operating Temperature:	0°C to 50°C
Storage Temperature:	-40°C to +70°C
Temperature Coefficient:	Compensated
Pressure Range:	± 3.0 psig
Ambient Humidity:	0 to 95% non-condensing
External Power Supply:	5V dc ± 5%, 100mV peak to peak ripple
EMC:	This product has no intrinsic function, and as such, cannot be given a CE mark. However, provided it is installed in accordance with good engineering design and build standard, the product will meet the European standards for EMC.
Shock and Vibration:	Meets requirements of BS EN 60068-2-6:1996 (IEC 68-2-6), BS EN 60068-2-27:1993 (IEC 68-2-27), IEC 68-2-34



<sup>1</sup> The Paracube® is not suitable for use in equipment where compliance to clause 11.1 of ISO7767: 1997 is mandatory

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Servomex has a policy of constant product improvement and therefore reserves the right to change specifications without notice.



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