



## HIGH ACCURACY OEM CARD FOR MEASURING PHYSIOLOGICAL† TEMPERATURE

Use with Opsens' OTP-M fiber optic physiological\* temperature sensor

### Key Features

- 1 to 8 channels
- Highest accuracy and resolution in the industry
- Outstanding repeatability
- 20 Hz sampling rate
- $\pm 5$  V and RS-232 output interfaces

### Applications

- Surface and core temperature monitoring in MRI environments
- RF, ultrasound and electro surgery environments
- Temperature monitoring for preclinical and research applications
- Ablation applications

### Description

The OEM-ACS is an OEM card specifically designed for measuring physiological† temperature. The OEM-ACS is designed to perform in stringent medical environments by offering the highest temperature accuracy and resolution in the industry

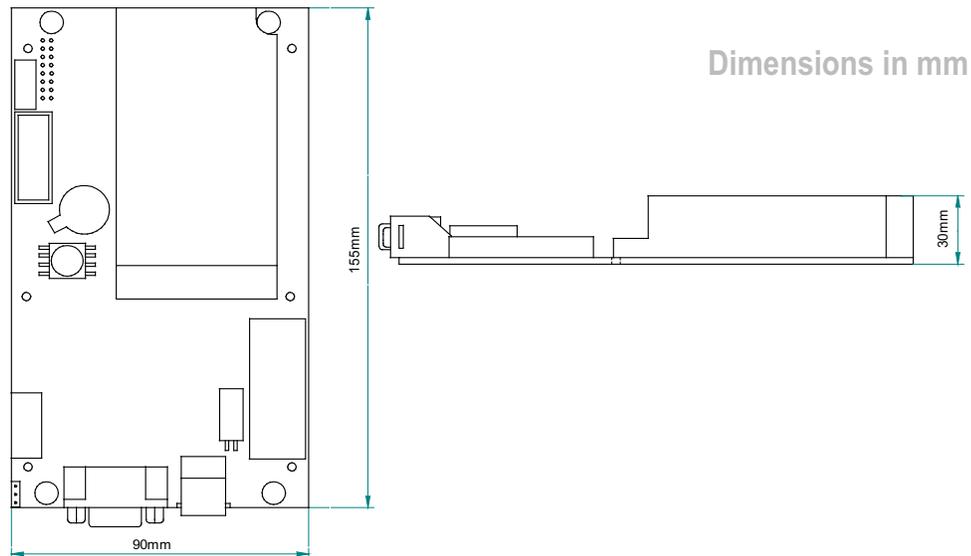
At the heart of the OEM-ACS is the Opsens' White Light Polarization Interferometry (WLPI) technology (patent # 7,259,862) which provides a mean for making accurate and absolute measurements of the path length difference of any type of interferometric fiber optic sensors, whose difference varies according to the measurand of interest.

The OEM-ACS comes with a standard  $\pm 5$  V output and a RS-232 communication port for real-time data acquisition. The OEM-ACS is available from 1 to 8 channels and customizable to client's application.

#### Opsens

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## Specifications

Number of channels	1 to 8
Compatibility	Opsens' OTP-M fiber optic temperature sensor
Accuracy*	± 0.15 °C (Total accuracy over the full range from 20°C to 45°C including both signal conditioner and sensor errors)
Resolution*	0.01 °C
Sampling rate	20 Hz standard (on one measurement channel)
Channel scan rate	6.67 Hz (channel-to-channel measurement time = 150 ms)
Output interface	±5 V and RS-232 standard
Input power	9 to 24 VDC (AD/DC wall-transformer adapter included)
Consumption	2.5 Watt typical
Dimensions	30 mm (H) x 90 mm (W) x 155 mm (L)
Storage temperature	-40 °C to 70 °C
Operating temperature	10 °C to 35 °C
Humidity	95 % non condensing
Light source life span	40 000 hours MTBF

\*Specifications include the effect of both the signal conditioner errors and the OTP-M sensor errors

All specifications are subject to change without prior notifications