## SIGNAL CONDITIONER

#### DESIGNED FOR THE MOST DEMANDING APPLICATIONS REQUIRING SYNCHRONISED HIGH SPEED MEASUREMENT



### Key features

- 2 channels per module
- Available in Rackmount or Stand-alone configuration
- High linearity, precision and resolution
- Stackable for a larger quantity of measuring channels
- EtherCAT<sup>®</sup> capability (available in 2017)
- Ethernet interface and analog outputs
- Embedded web application

STAND-ALONE CONFIGURATION

# Two channels per module CORESENS Compatible with Opsens Solutions' WLPI fiber optic sensors: pressure, temperature, strain, displacement

### DESCRIPTION

The CoreSens is a versatile, scalable system that includes a control unit, modular signal conditioner unit (WLX-2 modules) supporting a **variety of fiber optic sensors**. Each WLX-2 modules have **two channels** to optimized number of sensors per chassis.

The CoreSens is designed for the most demanding applications requiring synchronised high speed measurement.

At the heart of the CoreSens is the Opsens Solutions' White Light Polarization Interferometry (WLPI) technology (Patent #7,259,862) which provides a means for making **accurate and reliable measurements** of physical parameters such as **temperature, strain, pressure and displacement**.

Through its EtherCAT<sup>®</sup> capability (available in 2017), the system offers a larger quantity of measuring channels working simultaneously at speed up to 1 kHz. The CoreSens unit chassis can be easily stackable for applications involving hundreds of measuring points.

In its chassis configuration, an embedded web application allows **control** of the CoreSens. The Rackmount module also offers a SDHC memory capabilities to store data locally.

EtherCAT<sup>®</sup> is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.





### CORESENS SIGNAL CONDITIONER

### **S**PECIFICATIONS

