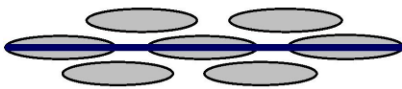


# Oxsensis



multi parameter optical sensing

## i-Phire™ 4 Channel Optical Interrogator Unit Type – DW120



### PRODUCT FEATURES

- **4 Channel Dynamic Pressure measurement from Fabry-Perot interferometer interrogation**
- **Automated Calibration**
- **Reduced Cost Per Channel**
- **Programmable Fault Diagnostics**
- **CE mark and RoHS compliant**

### OVERVIEW

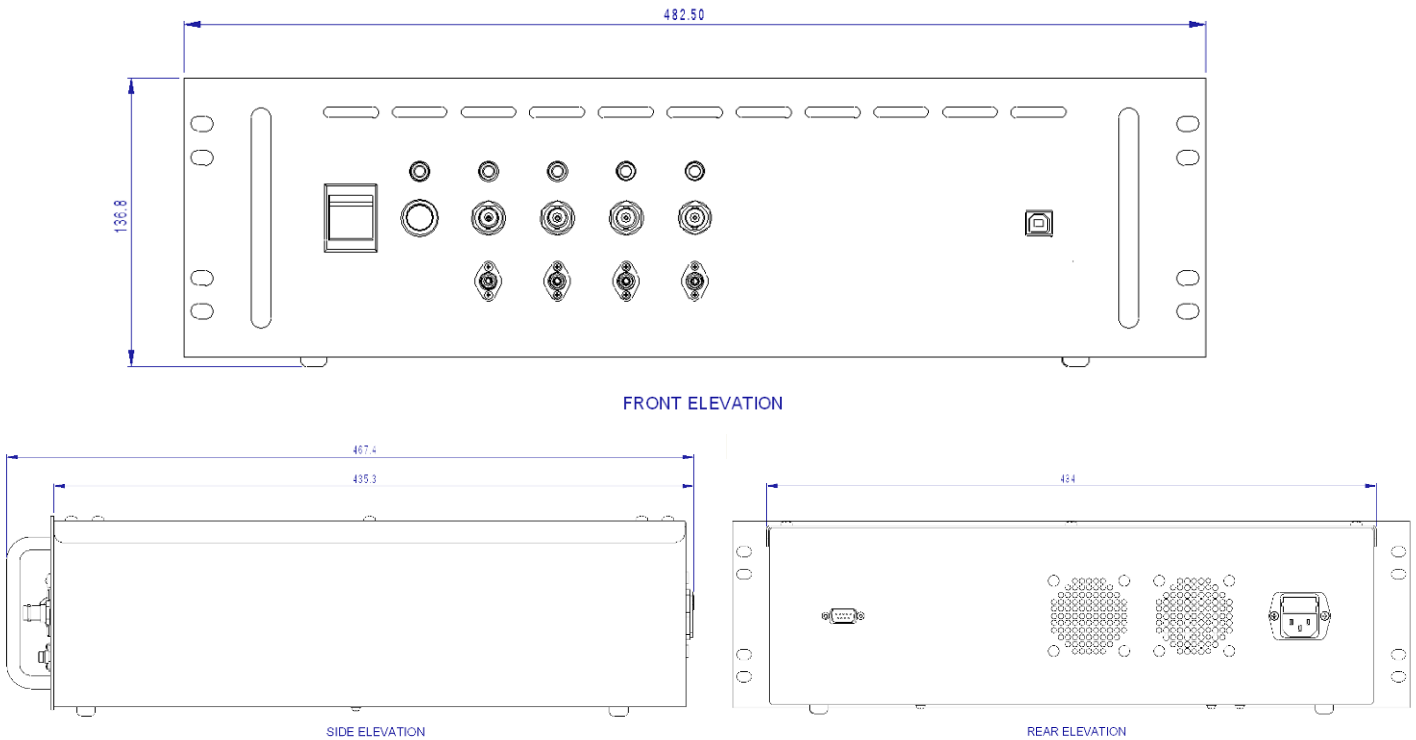
The i-Phire™ 4 channel optical interrogator unit, when combined with the dynamic pressure Wave-Phire™ range of transducers, provides a complete dynamic pressure sensing system.

The i-Phire™ converts the optical signal into a voltage signal, which is directly proportional to the dynamic pressure. The complete sensing system offers dynamic pressure measurement opportunities at far hotter locations than has previously been possible with conventional piezoelectric based transducers.

### SPECIFICATIONS

- AC Analogue Output: Scalable to  $\pm 4V$  p-p via programmable gain control
- Programmable Frequency bandwidth DC – 50kHz
- BNC connector interface
- Power supply requirements - single phase AC supply:
  - Voltage 100-240V  $\pm 10\%$
  - Frequency 50-60Hz  $\pm 10\%$
  - Current  $\leq 2$  A
- Sensor Specific fault diagnostics
- CE mark and RoHS compliant
- Optical components Telcordia GR-468-CORE compliant
- Automatic compensation for light intensity variation in optical fiber connections
- Long optical fiber cable lead-out allows sensor to be remotely monitored i.e. in a control room environment
- Temperature: Operational 5 to 40°C  
Storage -17 to 60°C
- Relative Humidity: 0 to 95%, non-condensing
- Unit dimensions: 482mm (W) x 136mm (H) x 435mm (D)
- 19" rack mountable

**MECHANICAL DRAWING**

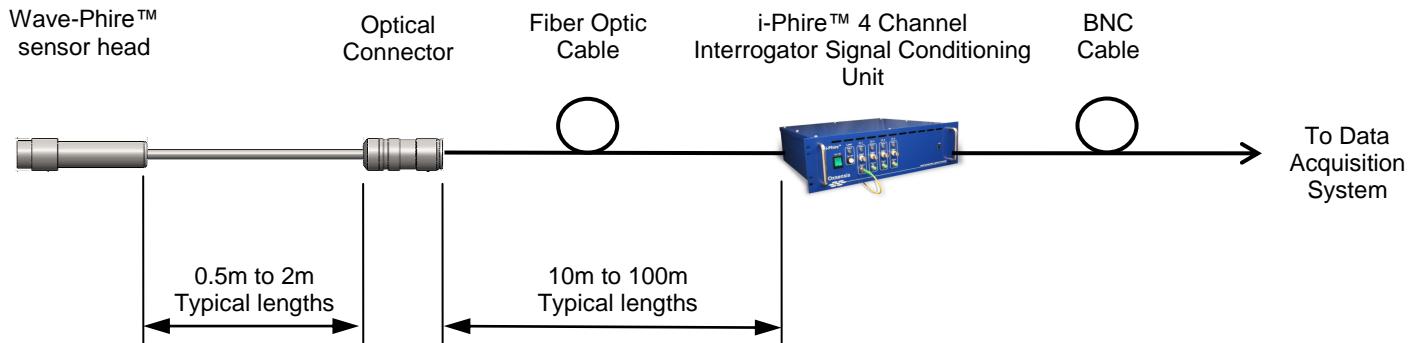


**CLASS 1  
LASER PRODUCT**



**RoHS Compliant  
Directive 2005/95/EC**

**COMPLETE SENSING SYSTEM**



**DESIGNATION SYSTEM**

**Order Number: DW120**

Currently no options available on DW120



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As part of Oxsensis' commitment to ongoing improvements of our products, Oxsensis reserve the right to modify specifications without prior notification.