

OXSENSIS

i-Phire™ - DW120

4 Channel Optical Dynamic Pressure Transducer Interrogator

PRODUCT FEATURES

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

OVERVIEW

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

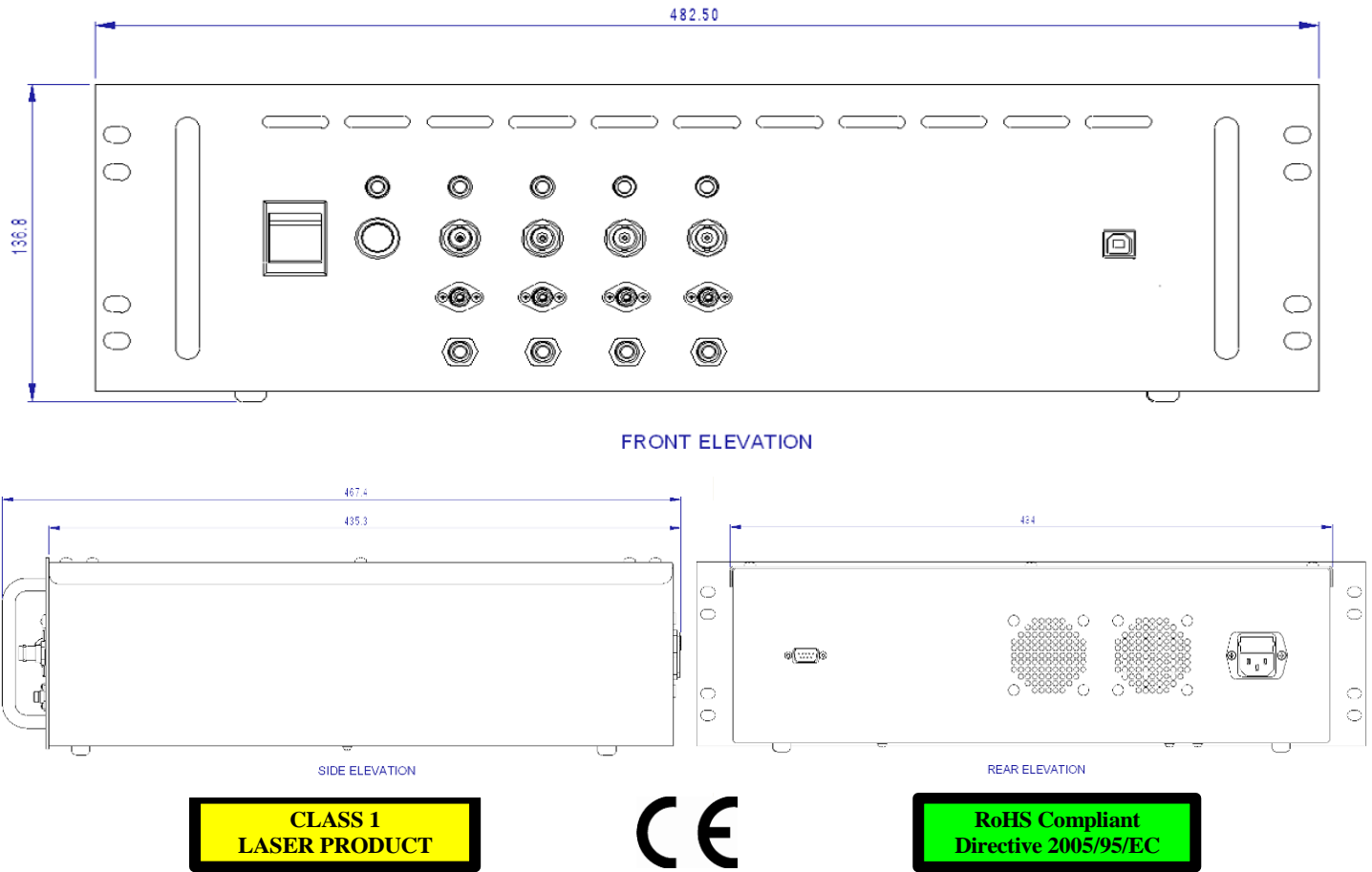
The i-Phire™ transmits light to the sensor and converts the reflected optical signal into a voltage signal, which is directly proportional to the dynamic pressure. The complete sensing system offers dynamic pressure measurement opportunities at far hotter locations than has previously been possible with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



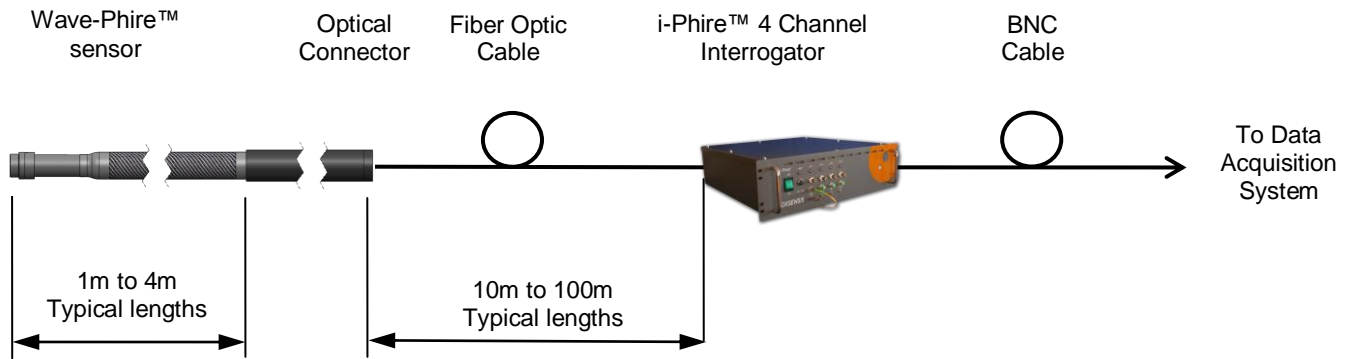
SPECIFICATIONS

- Analogue Output: Scalable to $\pm 4V$ p-p via programmable gain control
- Frequency bandwidth 1Hz – 50kHz
- BNC connector interface
- Power supply requirements - single phase AC supply:
 - Voltage 100-240V $\pm 10\%$
 - Frequency 50-60Hz $\pm 10\%$
 - Current ≤ 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 monitored remotely i.e. from 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



COMPLETE SENSING SYSTEM



DESIGNATION SYSTEM

Order Number: DW120

Currently no options available on DW120



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