

i-Phire™120

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

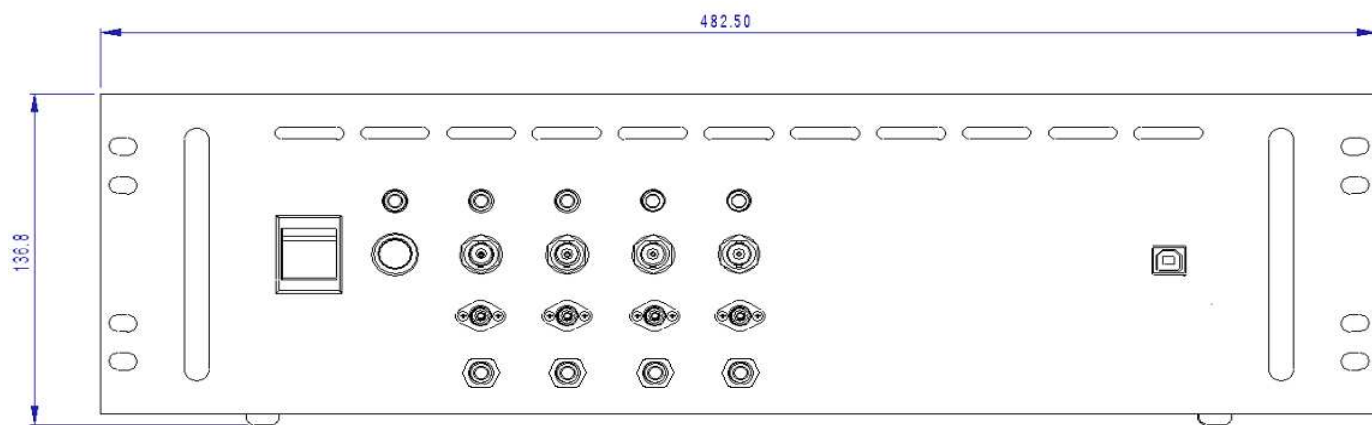
The i-Phire™120 transmits light to the sensor and converts the reflected optical signal into a voltage signal, which is directly proportional to the dynamic pressure. The complete sensing system offers dynamic pressure measurement opportunities at far hotter locations than has previously been possible with conventional piezoelectric based transducers.



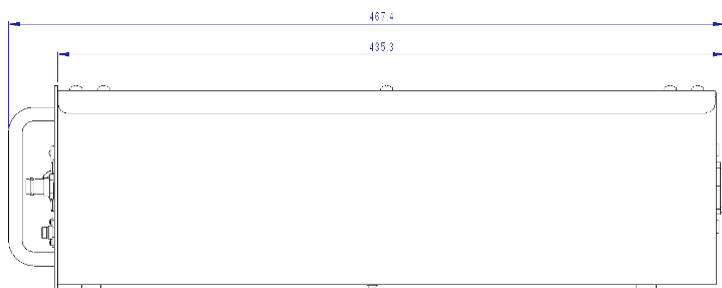
SPECIFICATIONS

- 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

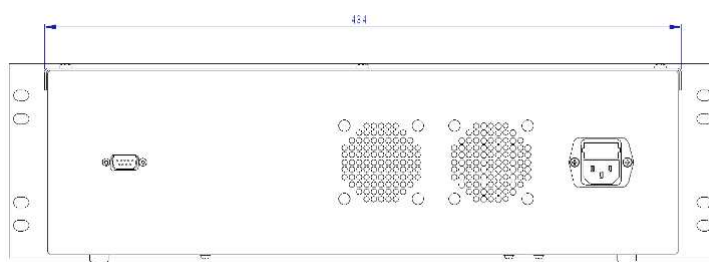
MECHANICAL DRAWING



FRONT ELEVATION



SIDE ELEVATION



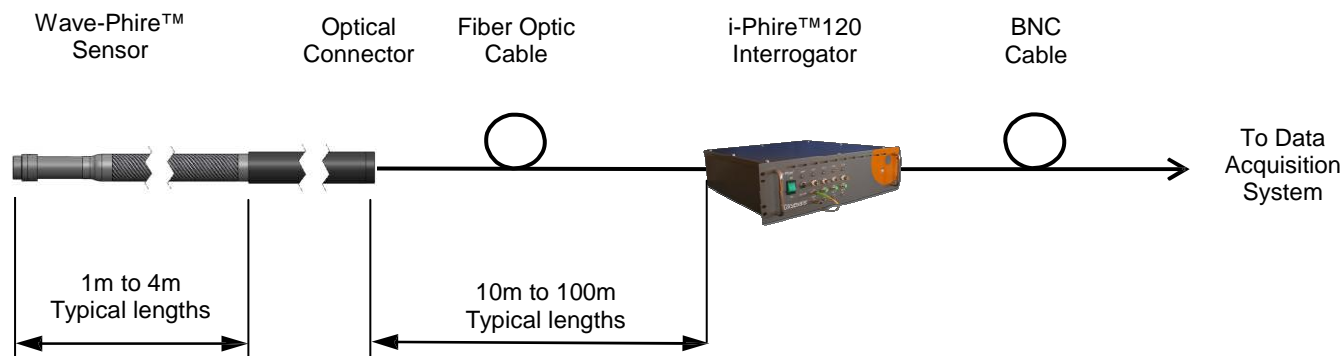
REAR ELEVATION

**CLASS 1
LASER PRODUCT**



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

COMPLETE SENSING SYSTEM



DESIGNATION SYSTEM

Order Number: **i-Phire™120**



欧普申光电科技有限公司
地址：深圳市宝安区西乡金海路华盛辉
综合楼9A02

电话：0755-29740056/33057317
传真：0755-29740056
邮箱：info@opsensingtech.com
网址：www.opsensing.com
www.opsensingtech.com