iMFSU - intelligent Multi-Function Sensor Unit

COMMERCIAL DIVE SYSTEM PRODUCTS

Key Features:

Multiple sensors integrated in one compact unit operating within the chamber:

- **Oxygen (pO2 and ppO2)**
- **Carbon Dioxide**
- **Carbon Monoxide**
- **Temperature & RH**
- **Pressure**
- **ROCO depth**

iMFSU

Benefits:

- **Improved accuracy of gas analysis sensors by operating in the chamber**
- **Saves control room space**
- **No gas sample piping from chambers to SAT panel**
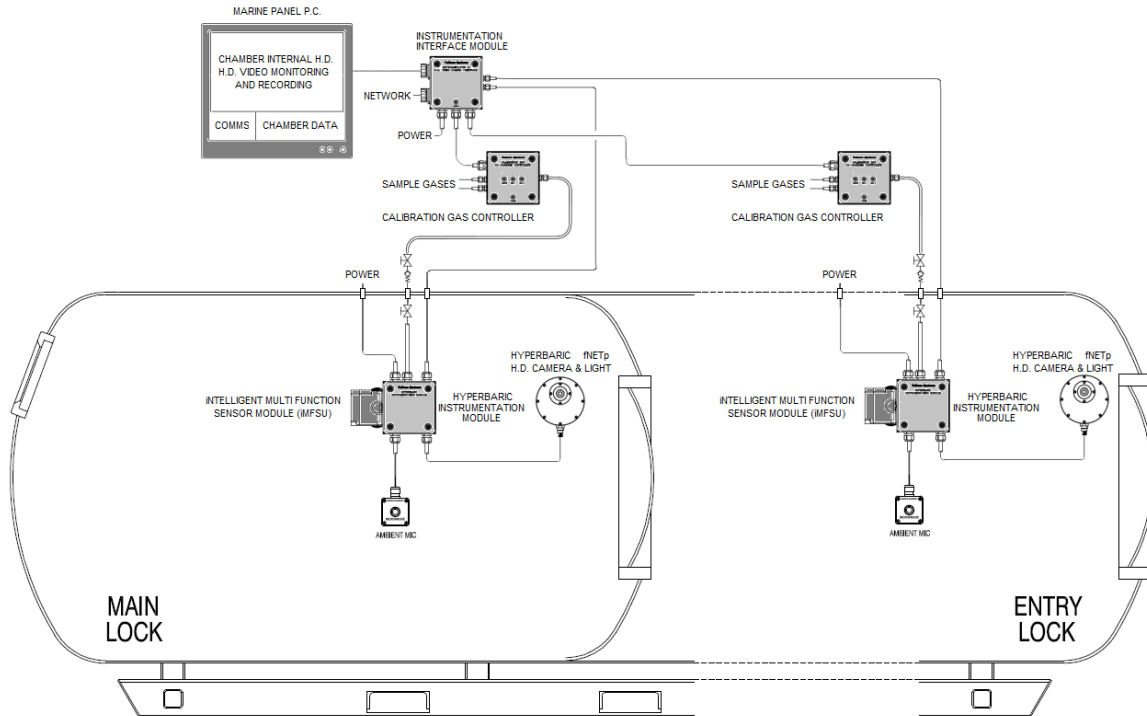- **Simplified maintenance and reduced costs**

Product Overview:

Fathom Systems' intelligent Multi-Function Sensor Unit (iMFSU) is a single unit containing all the environmental sensors required to monitor the atmosphere within a surface supply or saturation diving chamber.

Readings from the sensors are passed digitally from the sensor blocks to remote display units located in the saturation chamber control room and to the SAT Diver Monitoring System for display and alarming of the measured chamber parameters.

Primary Hyperbaric Instrumentation:

iMFSU combined with in-chamber calibration gas control unit and hyperbaric video monitoring

Environmental:

Temperature	Operating: 5°C to 55°, Class A Storage: -10°C to 55°, 96% RH
Inclinations	Roll +/- 45Deg Permanent List +/-22.5Deg
Atmosphere	Relative Humidity 100% RH, Class D Working Pressure 550m (37.9 bar)
Ambient air salinity	1 mg salt per 1 m3 air
Ingress Protection	IP 56 (with breather)
Shock and Vibration Frequency Amplitude Acceleration	Class A 3 to 100 Hz 1.6 mm (peak value below 25 Hz) amplitude 4.0 g above 25 Hz
EMC	DNV-OS-D202, Ch.2, Sec.4, B900

Options:

- Calibration Gas Controller for in-chamber calibration
- Instrumentation Modules
- Hyperbaric and external interface modules with power and fNET
- Integrated video streaming
- fNET HD Hyperbaric IP Cameras
- LED lighting control
- Supplementary inputs for door status etc.

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