Proudly presenting the innovative **Drass HUF (Hyperbaric Ultraviolet Flame) Sensor, the only flame sensor on the market to receive IACS Class Society Type Approval for use in a hyperbaric environment.**

Pressure tested up to 50 bar and able to detect a flame at 10 times the distance of standard flame detectors, its fine tuned configuration ensures the detection of small flame inside a DDC or TUP within a few milliseconds. This product thereby provides ultimate reassurance for those working in safety-critical environments.

The Drass HUF Sensor "sees" UV radiation within such a narrow band width that a single flame is detected before it is visible to the naked eye (see graph below). What is more, the fine precision of this UV band range prevents sun or artificial lights from creating false alerts. Upon fire recognition, the HUF Sensor signals a change in state from normal operation (green light) to fire alert (red light) thereby activating the alarm and fire extinguishing system, in accordance with company and HSE regulation.

The HUF sensor is compatible with standard fire alarm panels including Consilium which are commonly part of Drass installations and bear the IACS Class Society Type Approval. Such an integration also ensures the immediate detection of short-circuit or cable break, thereby optimizing the system's safety performance.

As a natural complement to the HUF Sensors, Drass provides smoke alarms that are IACS Class Society Type Approved, and validated by Drass under Class supervision for hyperbaric use. They can also be connected to the Consilium Fire Alarm Panel, making the whole arrangement a single-stop solution against flame/ smoke risks.

The HUF sensor comes in a red anodized aluminium housing with a splash proof 10-way connector on the back of the unit. Internal electronics are encapsulated in resin thereby securing these from environment factors including temperature variations, moisture and dust.

A standard installation includes two Flame Sensors for each chamber, each one installed on the upper part of opposite chamber walls thereby ensuring all angles are covered.

Commonly the sensors are managed from the control room and additional panels can be easily installed where required, making it possible to obtain a system which is tailored to customer needs.

Sensors include a password protected RS232 service connection in order to check configuration and reconfigure desired parameters in terms of threshold, delay, latency.

Sensors are supplied with cable connectors and with connection cable.

Technical Data

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Total Weight	900 gr
Overall Diameter	64 mm
Total Length	110 mm
Operating Maximum Pressure	40 bar
Environmental Conditions	Temperature A Humidity B Vibration A EMC A Enclosure B

Power Supply

Voltage	24 Vdc
Current	50 mA @ 24V

Signal Output

RS 232 Serial Communication (optional) : for diagnostic and setting	
Alarm relay : 1 NC Contact rated for 1A@ 30VDC or 0.3A @ 125VAC + safety output for Fire Alarm Panel	
Angle of view (horizontal)	120°
Angle of view (vertical)	120°

Certification

IACS Class Society Type Approval	
CE marking (including both EMC and RoHS conformity)	
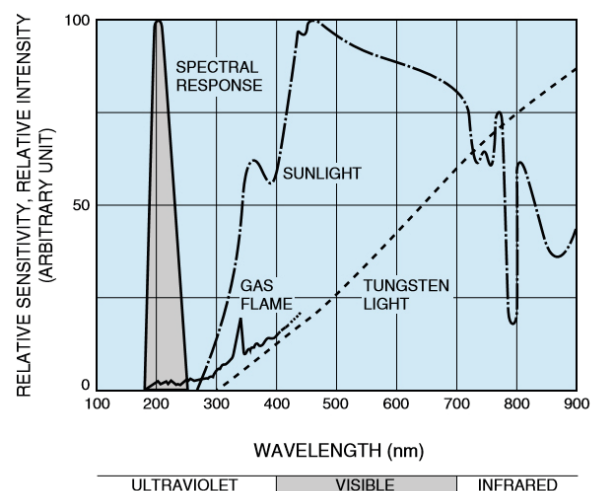
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