

Smoke & Particulate Matter monitoring for ships



Key Features;

Measure Opacity (smoke density) and Particulate Matter (PM) in one unit

Proven technology, hundreds of maritime installations

Marine Type Approved (Lloyds Register) tested to ensure suitable for maritime use

Simple installation, supplied as a complete kit just requires a single power supply integrates to vessel alarm system

Low maintenance requirements, just occasional cleaning of lenses

Typical Applications;

Smoke density monitoring of diesel engines and boilers whilst in port or when transiting close to shore allowing ship's crew instant notification when smoke thresholds are exceeded

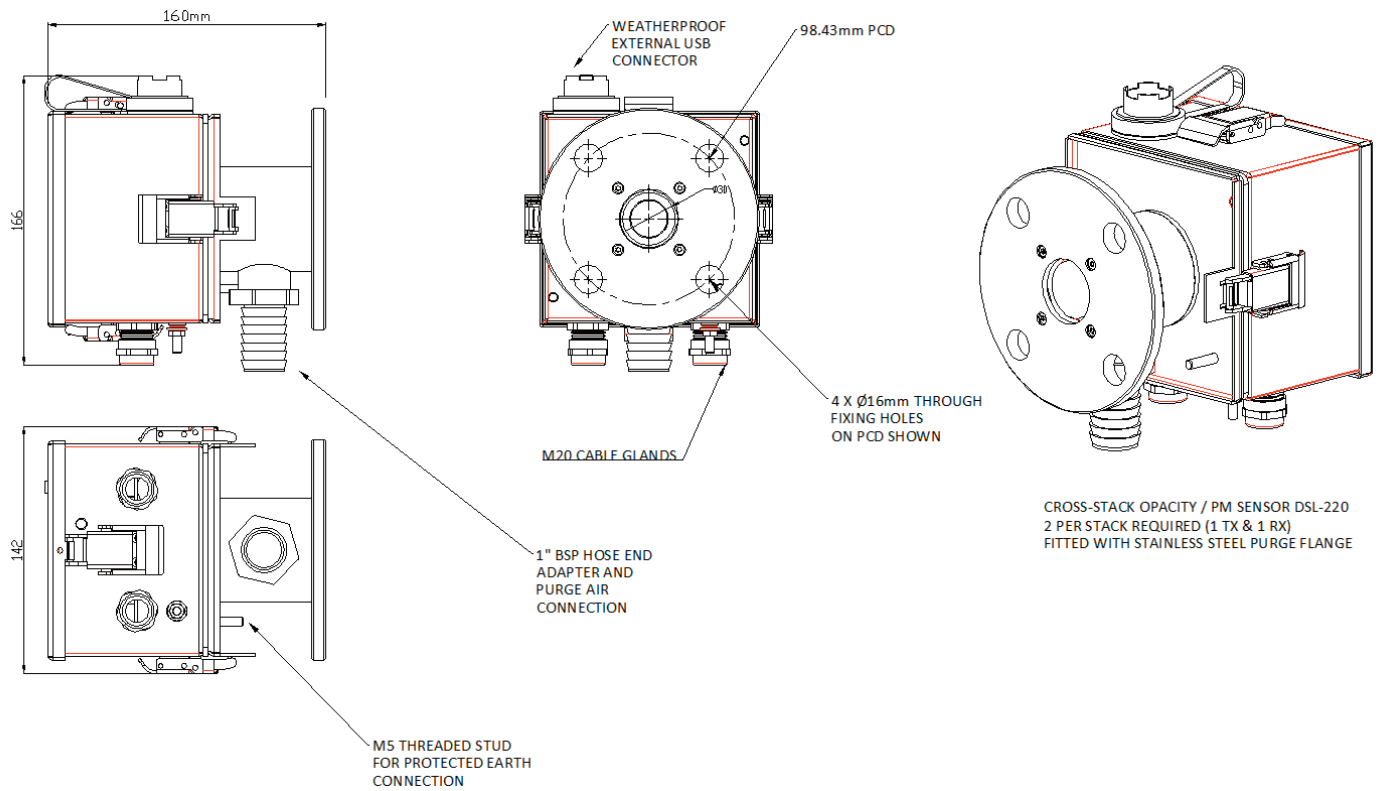
Alaska visible smoke regulations

US EPA visible smoke regulations

Charterer requirements and compliance with standards such as TMSA or environmental Class Notations

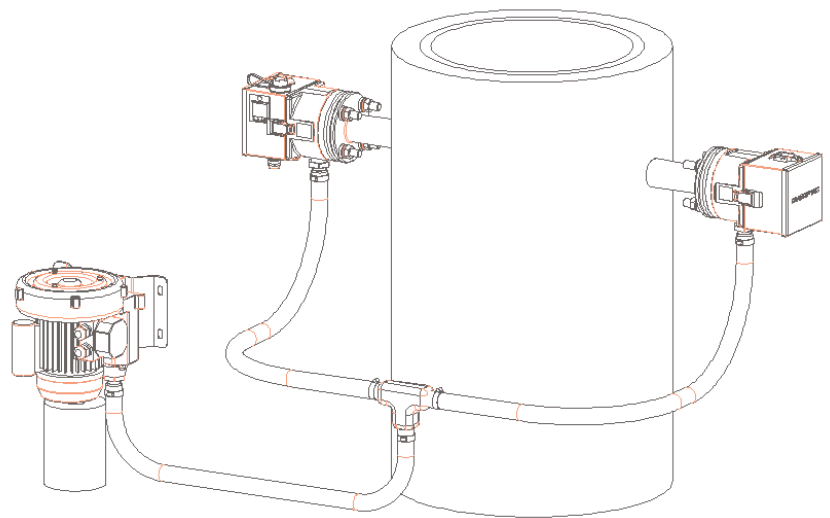
Maintenance indications of diesel engines

Optimisation of combustion in boilers



CROSS-STACK OPACITY / PM SENSOR DSL-220
2 PER STACK REQUIRED (1 TX & 1 RX)
FITTED WITH STAINLESS STEEL PURGE FLANGE

Path length	0.5 – 5.0 metres
Measuring range	0-100%
PM output	mg/m ³
Output Protocol	MODBUS RS485
Maximum Stacks	16
Accuracy	+/- 2%
Resolution	0.1
Voltage	230VAC or 24VDC
IP Rating	IP65
Operating Temperature	-20°C - +55°C
Gas Temperature	550°C Max
Material	Stainless Steel 316L
Weight	2.5kg each
Type Approval	Lloyds Register



Typical cross-stack configuration with optional self-container air purge kit



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