

Gas Status Lx

Gas Detection For Pump Rooms · Ballast Tanks · Void Spaces

The Gas Status Lx is designed as a cost effective and reliable solution for continuously monitoring gas concentrations in the pump room, ballast tanks and void spaces onboard tanker vessels.

Sampling of the ballast tanks and void spaces is done by our sampling cabinet. This unit is built using all intrinsically safe components and can be placed directly in the hazardous area. The cabinet can have up to 39 sample points with the option of having each group of 19 to 20 sample points running simultaneously and independently. The hydrocarbon gases are sensed by an INFRA-RED sensor providing long life and up to 1 year calibration cycles.

Pump room gas monitoring is provided by up to 8 fixed sensors. Sensor options include up to 6 intrinsically safe INFRA-RED combustible sensors, an intrinsically safe electrochemical oxygen sensor and/or a hydrogen sulfide sensor. Each sensor is calibrated locally and has a LCD screen and health indicator.

The Gas Status Lx provides continuous display of all sensor readings and alarm conditions on its large 7.7" color WEB ENABLED graphic touch screen. It has SPST relays for alarm lamp outputs, horn outputs and common system alarm. Additionally, remote display units can be multi-dropped around the vessel, providing easy access to all necessary information in places such as the bridge and engine control room.



- Connect to ships computer network for viewing, logging and control of the system from any authorized computer on the network
- Intrinsically safe sample cabinet (place in the hazardous area)
- Up to 39 sample points
- Expandable in the field with plug-in solenoids
- Auto and manual purge cycles
- Auto shutdown and alarm on point flow failure
- Fixed intrinsically safe infra-red or catalytic combustible transmitters
- Fixed intrinsically safe electrochemical oxygen and H2S transmitters
- Multiple remote displays on multi-drop network
- All sensor locations displayed on screen (no scrolling to read)



Vigilant Marine Systems, LLC

170 N. Maple Street • Suite 104 • Corona, CA 92880

Tel: + 1 951-808-9940 • Fax: + 1 951-808-8530

email: info@vigilantmarine.com • www.vigilantmarine.com

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Specifications:

Monitor (Main & Remotes)

Power	Primary 90–240 VAC 2 Amp Secondary 24 VDC 2.5 Amp
Operating Temperature	0 to +50 °C
Humidity Range	0–90% RH, non-condensing
Alarm Points	Primary power failure, secondary power failure Warning Combustible Oxygen (pump room only) H2S (pump room only) Critical Combustible Oxygen (pump room only) H2S (pump room only) Flow failure (ballast and void spaces only)
Outputs	Common lamp relay SPST 240V 2A Common horn relay SPST 240V 2A System relay SPST 240V 2A (Pulses once on new alarm)
Mounting	Wall
Size	330mm x 400 mm x 140 mm (HxWxD)
Options	Web enabled to connect to ships computer network

Sensors

Combustible	
Gas Types	Flammable fuels (not hydrogen)
Sensor Type	NDIR infra-red
Range	0–100% LEL
Operating Temperature	-20–+50 °C
Humidity	0–95% RH, non-condensing
Safety (BASEEFA)	EEx iad IIC T4 (-20 °C < Ta < +60 °C)
Zones	1 or 2
Oxygen	
Sensor Type	Electrochemical diffusion
Range	0–25%
Operating Temperature	-20–+40 °C
Humidity	0–99% RH, non-condensing
Safety (BASEEFA)	EEx ia IIC T4
Zones	0, 1 or 2
Hydrogen Sulfide	
Sensor Type	Electrochemical diffusion
Range	0–50 ppm
Operating Temperature	-20–+40 °C
Humidity	15–95% RH, non-condensing
Safety (BASEEFA)	EEx ia IIC T4
Zones	0, 1 or 2
Sample Cabinet	
Air Supply	6 Bar minimum (dry and oil free)
Air Consumption	Approximately 6 LPM sampling
Operating Temperature	0 to +50 °C
Humidity Range	0–90% RH, non-condensing
Measuring Points	Maximum 39
Sampling Pump	Air ejector
Sample Point Inlets	1/4" NPT
Mounting	Wall
Size	620mm x 620 mm x 350 mm (HxWxD)