

Ambient Combustible Gas Detector

Measures ambient gas levels to monitor for potentially unsafe rigsite conditions

Applications

- Measuring ambient gas levels

Features and Benefits

- The detector installs as a single unit or in tandem with several units around the drilling rig and logging unit.
- Poison-resistant sensor heads improve sensor reliability.
- The local display and buttons enable calibration in a hazardous area without the need for a hot work permit.
- The marine-grade aluminum detector and stainless-steel sensor housing withstand harsh rig environments.

Tool Description

Ambient combustible gas detectors can be placed at various locations around the rigsite (such as the rig floor, flowline, shaker area, and pit area) to measure the levels of combustible gas in the atmosphere. A detector can also be installed within the logging unit and connected to the unit shutdown system.

Certifications

The ambient combustible gas detector meets the following certifications:

ATEX	II 2 G Ex d IIC T6 Gb (131°F, 55°C)
UL	Class 1, Zones 1 and 2, AEx d IIC T6

Specifications

Brand	Crowcon
Model	Flamguard Plus
Material	316 stainless steel
Length	7.9 in. (200 mm)
Weight	4.8 lb (2.2 kg)
Sensor gas type	Combustible gas, catalytic bead
Display type	3-digit LCD back-lit display, LED status indicator
Supply voltage	10 to 30 Vdc
Output signal	4 to 20 mA
Accuracy	± 2% of sensor range
Response	< 15 sec
Sensitivity	± 2% of sensor range
Location	Rig floor, mud pit room, ditch, or possum belly
Operating temperature	14°F to 131°F (-10°C to 55°C)
Humidity tolerance	0 to 99% RH non-condensing



The ambient combustible gas detector can be used in the rig floor, mud pit room, ditch, or possum belly.

