



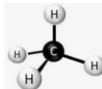


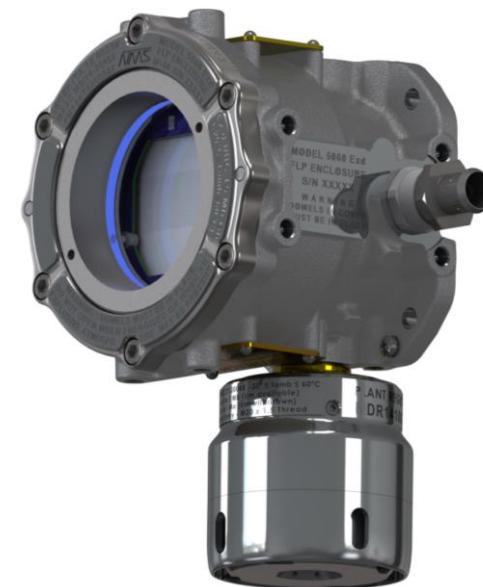


Designed and tested for **STATIC** and **DYNAMIC** conditions where there are sudden shocks in temperature and/or humidity typical for double-door scenarios

Nautitech CH4 Monitoring System with Hybrid Snout

Scenario		Condensation Factors			Behaviour of CH4 Sensors		
ASSUMPTIONS	<p>Machine trip level for CH4 is 1.25%</p>  <p>Actual level of CH4 in atmosphere is between 0.0% - 0.8%</p>	 <p>Rapid Change Temperature</p>	 <p>Rapid Change Humidity</p>	 <p>Increasing Temperature</p>	 <p>Standard CH4 Sensors</p>	 <p>Nautitech® RapidSense (with heater upgrade)</p>	 <p>Nautitech® Hybrid Sensor (with or without heater upgrade)</p>
	<p>STATIC CONDITIONS (Extreme but Stable)</p> <p>Machine stopped or operating in various parts of the mine with only <u>slow</u> changes in temperature</p> <p>Machine stopped or operating only in return-air side of the mine where it's a <u>warm, humid</u> environment</p>				✓	✓	✓
DYNAMIC and EXTREME CONDITIONS	Machine operating in return-air side of double door, then crosses to fresh-air side	YES	YES		✓	✓	✓
	Machine operating <u>more than 20 minutes</u> in fresh-air side of double-door, then crosses to return-air	YES	YES	YES	Challenging Conditions	✓	✓
	Machine operating <u>less than 20 minutes</u> in fresh-air side of double-door, then crosses to return-air side	YES	YES	YES	Challenging Conditions	Challenging Conditions	✓
	Machine started in the morning after being parked on the surface overnight				Challenging Conditions	Challenging Conditions	✓



Standard CH4 systems are designed for **EXTREME** yet **STATIC** conditions

The Nautitech® hybrid snout has been developed to address industry challenges with CH4 systems in environments affected by changes in temperature and humidity

Part # - CT118501 Rev 4 Hawkeye Methane Master Basic System
 Part # - ME5070-2-90-159 Hybrid Snout (upgrade existing systems)
 Part # - SW507001 Software Revision 2.0.2

Hybrid snout approved under NSW MDR 141807 GD-2

Sensor w/software upgrade can be identified by yellow ring



Sensor Software Compatibility		
2.0.1	Compatible	Upgrade Software
2.0.2	Compatible	Compatible