



POSEIDON
SYSTEMS

TRIDENT™

QM2100

Oil Quality Sensor

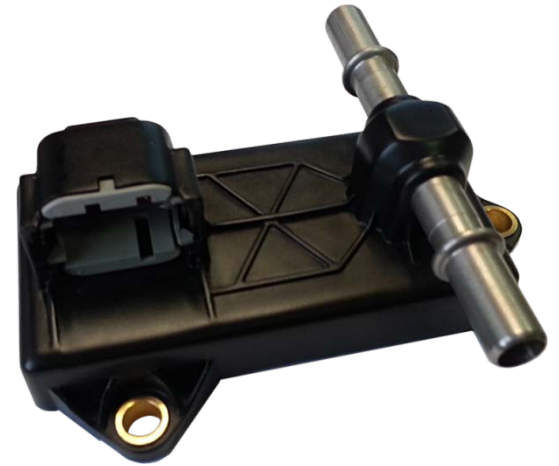
Real time monitoring leads to **improved** asset health management.

Poseidon Systems' Trident-QM2100™ is a real-time, in-line fluid quality monitoring technology for assessing remaining useful life, contaminant loading, and overall quality of lubrication and other working fluids. The device provides continuous insight to lubricant health promoting condition-based maintenance practices such as optimizing fluid drain intervals and triggering sampling.

The online sensing device uses electrochemical impedance spectroscopy (EIS) technology to measure fluid properties and provide insight into fluid health. The EIS method used injects a signal into the fluid via one electrode and receives a response signal on a secondary electrode. The signal transmission characteristics vary based on changes in lubricant condition.

QM2100 gives you the control to improve your asset health management by enabling informed maintenance decisions based on real-time oil condition monitoring. The monitor communicates with host systems using the SAE J1939 specification over CAN or the Modbus serial digital communication standard over RS485. These industry standards allow for easy integration into your current systems.

Trident-QM2100 Oil Quality Monitor gives you the **power** to use **real-time information** to help make **informed** and **proactive** maintenance decisions.



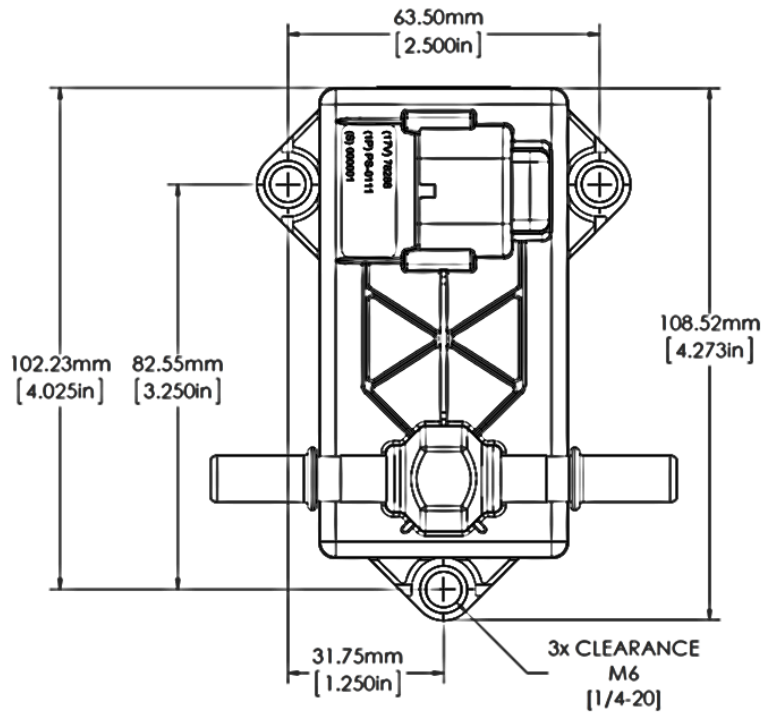
Trident-QM2100™ Oil Quality Monitor provides real-time insight to the condition of lubricants and other working fluids.

Key Features

- Multi-frequency interrogation
- Integrated temperature sensor
- J1939/ CAN compatible
- Modbus/ RS485 compatible
- No moving/ wear parts
- Small form factor, flow-through design

Applications

- Optimize oil sample timing and machine maintenance intervals
- Improve asset health state awareness
- Identify contamination events
- Detect oil change and top-up events



Technical Specifications

Flow Rate	Flow rate independent
Working Pressure	150 psi (10.3 bar) max
Burst Pressure	4350 psi (300 bar)
Fluid Temperature	-40 to 302°F (-40 to 150°C)
Ambient Temperature	-40 to 248°F (-40 to 120°C)
Viscosity	Viscosity independent
Fluid Line Connection	SAE J2044
Ingress Protection	IP67
Communications	CAN J1939 / RS485 Modbus
Weight	0.4 lbs (0.18 kg)