

MIRS8-T / MIRS8T-V: Oil Condition Monitoring for Engine Oils

Summary Information:

- Inline Mid-infrared Oil Condition Monitoring Sensor
- Integrated into engine lubrication lines – either stationary or mobile
- Configuration for Natural Gas and landfill Gas Engines (Config 1)
- Configuration for diesel engines (Config 2)
- Both come with vibration tolerant design (-V) for automotive mobile equipment.
- 8 customised payload channels for mineral based oils (Groups I-III)
- Customised to monitor TAN, TBN, ipH, oxidation, water content, soot, anti-wear additives, nitration and sulphation depending on application.
- Further customisation available on request



Product Description:

The MIRS8-T transmission sensor is a rugged and robust industrial sensor that is designed for inline and in-situ oil measurements of industrial fluids. The oil is provided to the sensor via the Swagelok connectors. If required sensor cooling options are also available. This MIRS8-T sensor is configured specifically for engine oils such as natural gas, landfill gas and diesel engines and can be configured for automotive mobile equipment with MIRS8-T-V variant for vibration tolerance.

The sensor can be part of the fieldkit system or a stand-alone device and the data can be sent to a cloud server complete with dashboard process control charts or sent to a customer database or read directly via the embedded predictor.

The sensor mounting is flexible and can be adopted to the specific application. Air bubbles in the oil do not cause an issue for our sensor technology. Ideally the sensor should be mounted directly after an oil filter in a bypass system.

Specification of the MIRS8-T Sensor:

- Dimensions: Ø x H / 75 X 60 mm
- Weight: 1200 g
- Housing material: Stainless steel/ Aluminium
- Communication interfaces:
 - USB + Ethernet
 - USB + RS232
 - USB + CANopen or CanJ1939
- Standard Operating voltage: 5-12V
- Optional up to 24V
- Oil Temperature: <70 ° C
- Option for 100° C
- Connector: Swagelok 6mm
- Max sample pressure: 15 bar