

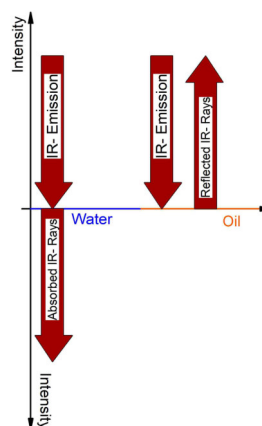
Oil on Water Monitor Model IRmat (IR-21)

Why oil on water and not oil in water?

This question is easy to answer, oil floats and is not evenly distributed in the water. The highest oil concentration is typically found in the upper area of large pipelines or at the water surface. Thus, our systems detect even small amounts of oil without problems by means of surface scanning.

Operating principle: IR reflection

- Emission of a modulated high-power IR- diode array onto the water surface
- Water absorbs IR- radiation
- Oil reflects IR- radiation
- So, a rise of reflected IR- energy corresponds with a rise of the oil-covered water surface
- The Modulation of the IR energy is used to compensate for ambient light and environmental influences



Installation example: mounting rod

- High response sensitivity (1 ml/m²)
- Low maintenance
- Non-contact oil detection
- High selectivity
- Large scanning area (approx. 8000 mm²)
- Optional bypass tank available
- Optional sampling for surface water with pump and skimmer available

Typical applications:

- Oil in drinking water treatment (reservoirs).
- Oil / power plant turbines
- Oil / hydraulic systems
- Oil in cooling water (heat exchanger oil)
- Oil in production water
- Oil in rainwater retention basins
- Oil / direct discharge into rivers / lakes
- Oil / discharge into municipal sewage system
- Monitoring of oil separators

For further information, please contact us or your local sales representative. We would be pleased to discuss with you the details for solving your special application problems.

Chemtronic Waltemode GmbH, Servicepartner for your MONITEK Products