

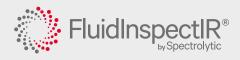


Oil Condition Monitoring

Revolutionise your fluid monitoring: maximise cost savings and efficiency with FluidInspectIR®

Demand for a fully integrated Fluid Condition monitoring solution is being driven by the never-ending search for operational efficiency across every industry from Marine to Oil and Gas. Many organisations see this process as a cornerstone of protecting long term profitability, sustainability and compliance.

Spectrolytic solutions manage support hundreds of businesses, managing thousands of assets and monitoring 10,000's of manhours to protect our customers operations, by creating a fully usable Data set that allows management to make the best proactive decisions in terms of maintenance and fluid usage, creating £millions of savings.













Oil Condition Monitoring

Real-time monitoring for the Marine, Power Generation, Industrial Fluids and Steel & Aluminium Rolling industries.



Cooling Fluids

Dynamically analysing cooling fluids for Data Centres and Metal Milling and Cutting.



Fuel Analysis

Remotely monitor FAME levels in BioDiesel, Ethanol in Gasoline and Water content in Jet Fuel.



Extend Asset Life:

Early failure warnings prolong machinery lifespan.



Enhance Bottom Line:

Reduce oil usage and dependency on labs, saving money.



Operational Efficiency:

Minimise human involvement with fully automated systems.

Next generation end-to-end solution for fluid monitoring

Actionable data from a true plug-and-play solution to increase user bottom line returns \$\$\$

Oil Condition Monitoring

Marine



Turbomachinery



- Eliminate operational doubt in fluid management
- · Maximize operations earnings
- · Increase Bottom line returns

Power Generation



Steel & Aluminium Rolling



- · Eliminate human-machine interface
- · Create intent actions through real-time data
- · Protect the bottom line of users

Cooling Fluids

Metal Working



- Eliminate humanmachine interface
- Create intent actions through real time data
- · Protect the bottom line of users

Immersion Fluids (datacenters)



- · Eliminate humanmachine interface
- Deliver 24/7 total control on process fluids
- · Protect process up time
- · Deliver bottom line increase

Fuel Analysis

Ethanol In Gasoline



FAME In Biodiesel



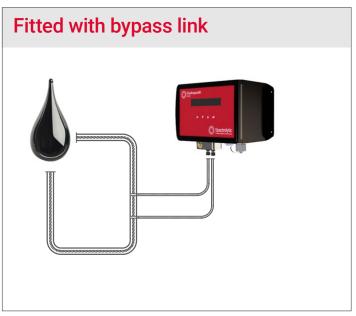
- · Control Quality
- · Remove human-machine interface
- · Create bottom line increase

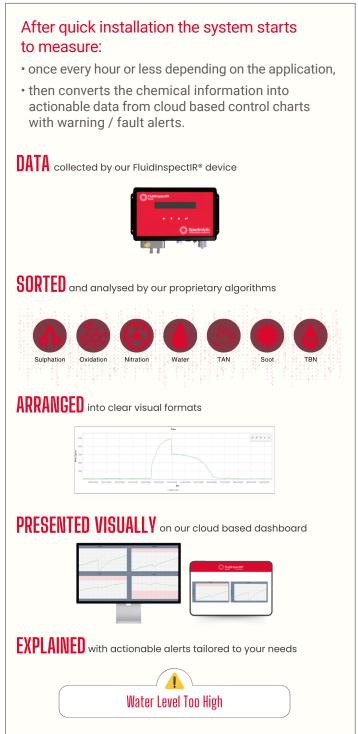
Plug-and-play connection for easy installation

FluidInspectIR® offers multiple installation options, fitting seamlessly into various oil circuit locations, including direct attachment to the oil tank or integration via a bypass link.

- ✓ Simple installation in minutes
- ✓ No operational inconvenience
- ✓ No pain for the customer







Product Portfolio

MOVING VEHICLES





MOVING VEHICLES





INLINE STATIONARY





Mid-infrared sensor for oil analysis in moving vehicles

Usage

- Mobile machinery
- · Agricultural equipment
- Military

Mid-infrared sensor for oil analysis in moving vehicles

Usage

- Mobile machinery
- Agricultural equipment
- Military

Inline system for all inline stationary assets.

Usage

Inline stationary assets

Features

- Vibration and shock tested to Standard AECTP 400 – Method 401
- Accelerated lifetime testing of 2 x 20 years

Features

- Excellent temperature control for extreme environments
- Embedded Predictor for edge computing

Covers all lubricants types

Features

- Contains Mid-Infrared sensor and Viscometer
- Pump or electric valve option
- Parametric data and error/fault display on panel
- LTE, Modbus, RS485

Dimensions

Ø x H / 75 X 69 mm

Weight

1200 g

Dimensions

160mm x 70mm x 100mm

Weight

2.5kg

Dimensions

322W*232H*137D mm

Weight

6kg

PORTABLE

FluidInspectIR®



ATEX





DEVELOPMENT





Portable system

Usage

- · OCM
- FAME analysis in Biodiesel
- Ethanol In Gasoline

Covers all lubricants types

Features

- · Contains Mid-Infrared sensor
- Battery Powered
- Software provided for installation on PC or tablet

Inline system for Explosive environments

Usage

- II 2 GD
- Ex db IIC T6 Gb
- Ex tb IIIC T85°C Db IP6

Covers all lubricants types

Features

- Contains Mid-Infrared sensor, Optical Particle Counter, Viscometer and integrated pump
- · LTE, Modbus, RS485

Application Development platform

Covers all lubricant and fluid types

Features

- Contains Mid-Infrared sensor Optical Particle Counter, Viscometer and integrated pump
- Additional Sensors like conductivity probes, pH meters can be integrated
- LTE, Modbus, RS485

Dimensions

447.5mm L x 517.5mm W x 280mm H

Weight

160kg SS & 80kg Alu.

Monitor critical plant assets



Gas Engine

Real-time monitoring of TAN, TBN, ipH, oxidation. nitration, sulphation, soot, water on natural gas, biogas and landfill gas engines.



Oil and water-based metal working fluids like cooling and cleaning agents in automotive lines, lubricant and rolling emulsions in steel and Aluminium milling. Measurement of key additives, contamination and oil degradation.



Marine

Real-time Monitoring of TBN, water, sulphation, oxidation on diesel engine systems and water, TAN, oxidation on EAL (environmentally acceptable lubricants) on ship propulsion systems.



Mobile machinery

Engines, gears, transmission and hydraulic systems in heavy machinery.



Gear Oils

Real-time monitoring of TAN, oxidation, water and EP additives in gear systems like wind Turbines, steel plants etc.



Turbine Oils

Monitoring of oxidation, Anti-oxidants on gas and steam turbines.

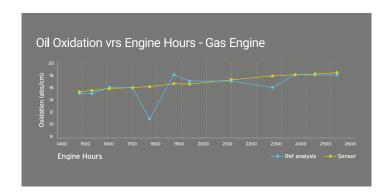


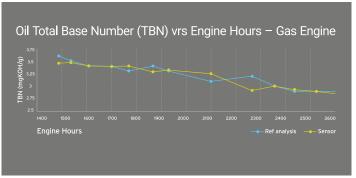
Many More Applications

Hydraulic and transmission oils, compressors oils, EHC fluids. The technology platform can be configured for most fluid applications to solve most measurements problems. Get in touch for application feasibility.

Lab accurate results without human error

The FluidInspectIR® Inline removes all human involvement from the oil analysis process resulting in lab accurate results, in the same units as oil lab reports that are easy for a Field Application Engineer to interpret.







No sample taking required





Typical Application Parameter List

	FluidInspectIR® Inline
	FluidInspectIR® Portable
	Both
OPT	Optional for inline system ONLY

	Gas Engine (Landfill or LNG)	Turbomachinery	Hydarulic	Dielectric Oils	Aluminium Rolling	Gears and Rollers	Marine VLSFO / Diesel Engine	Diesel Engine	Marine Stern Tube / Thruster EAL	Metal-Working Fluids/Emulsions	FAME In Biodiesel	Ethanol In Gasoline	Oil In Water
						Ğ				ΣĒ	₩.	ш	iō
Oxidation - abs/cm	✓	✓	✓	√	✓		✓	✓	✓				
Nitration – abs/cm	✓												
Sulphation – abs/cm	✓						✓	✓					
ipH	✓												
Water – Low end (<1%)	✓	√	✓	√	√		✓	✓	✓				
Water – Mid end (1-15%)					✓								
Water – High end (>15%)					√								
TBN - mgKOH/g	✓						✓	✓					
TAN – mgKOH/g	✓	✓	✓	✓	✓		✓		✓				
KV100C - cSt (or mm/s2)	✓						✓	✓	✓				
KV40C - cSt (or mm/s2)		✓	✓	✓	✓	✓			✓				
Fuel Dilution							✓	✓					
Amine AO – %		✓											
Phenol AO – %		✓											
Solvancer (DECON) - %		✓											
Wyrol 2 – wt%						✓							
Wyrol 4 – wt%						✓							
Wyrol 6 – wt%						✓							
Wyrol 8 – wt%						✓							
Wyrol 46 – wt%						✓							
Total Concentrate – m/m%										✓			
Brix										✓			
Specialist Additive Packages – m/m%										✓			
FAME wt%											✓		
Ethanol wt%												✓	
TPH %													✓
OPC - ISO4/6/14	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT			
Wear	OPT				OPT		OPT	OPT					
Conductivity pS or µS/m				OPT									

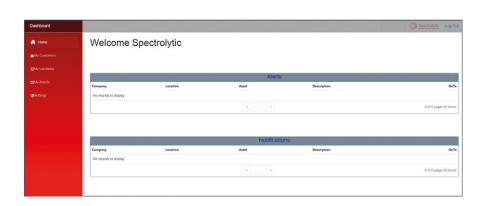
Non-standard parameters available on request

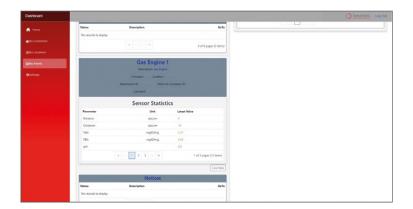
In-depth data analytics



DataInspectIR is Spectrolytic's data analysis hub. We provide cloud data services and in-depth data analytics based on our inline, real-time sensor data - this will give our customers an enhanced level of understanding on their equipment and allow them to efficiently manage lube cycles, reduce emissions, save costs and increase asset uptime.

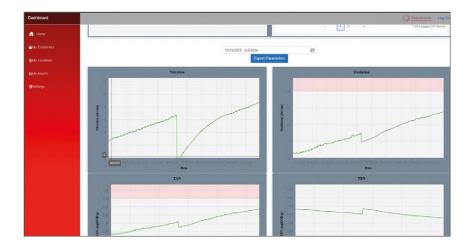
Data is sent to Spectrolytic's cloud. Option to view/download data via a dashboard.



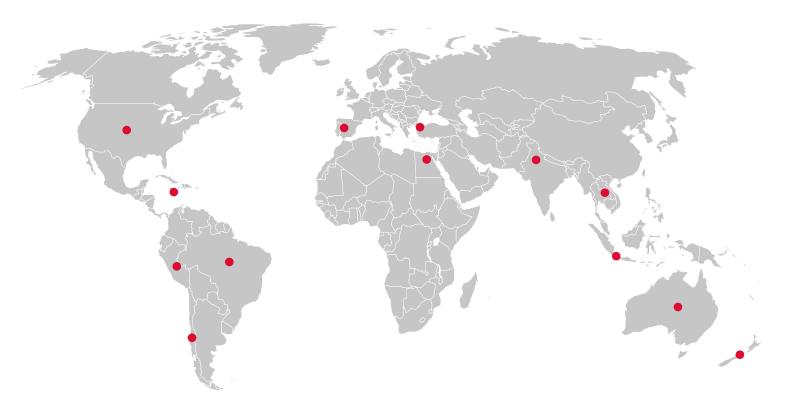


We support customer's cloud (Azure, AWS) via MQTT or Web API protocols.

Direct integration available with on-site controller systems.



Global sales and distributors



GLOBAL

ATEX ParticleCounting Company



GLOBAL

S2E

§ S2E

Contact

Wayne Hubball +44(0)1522789097 info@atexparticlecountingcompany.com

www.atexparticlecountingcompany.com



Mario Miranda +569 4090 7476 ventas1@s2e.cl

www.s2e.cl

GLOBAL

Cheshire Solutions Ltd



USA

Fluitec

Ofluited

Contact

Mark B Graham +44 7530 030117 mark.graham@cheshire-solutions.com cheshire-solutions.com

Contact

Greg Livingstone (+1) 201 208 7555 g.livingstone@fluitec.com

www.fluitec.com

SOUTH AMERICA REGION

Lubtec



BRAZIL

ADEX Group



Contact

Peter Hartmann (+51) 999 668 829 Peter.hartmann@lubtec.com.pe

www.lubtec.com.pe

Contact

Hafid Mokdad mokdad@adexgroup1.com

www.adexgroup1.com

CHILE

Industry Efficiency Solutions (IES)



CARIBBEAN, CENTRAL AMERICAS

CASL



Contact

Max Doweck +56 9 4137-5872 maxi.doweck@iesolutions.cl

www.iesolutions.cl

Contact

Brian Ramatally 868-223-2275 info@casl-group.com

casl-group.com

PORTUGAL & SPAIN

Romafe



TURKEY

Decente A.S.



Contact

Vasco Loreiro 226 158 300 vloreiro@romafe.com www.romafe.com

Contact

Umut Urkun (+90) 533-5805348 umut.urkun@decente.com.tr

EGYPT

Natcom



INDIA

ACE Instruments Delhi



Contact

Khairy Arsanios +2 02 227 29658 +2 02 227 29659 Khairy.Arsanios@NatcomEgypt.com

www.natcomegypt.com

Contact

Nirmal Giri (+91) 11 2555 7167 nirmalgiri@aceinstrumentsdelhi.in www.aceinstrumentsdelhi.in

INDONESIA Energi Biru Solusindo, PT



INDONESIA

PT Fluida Teknologi



Contact

Chris Bruderlin (+62) 811 9788 032 chris.b@energibirusolusindo.com

www.energibirusolusindo.com



Contact

Adrian Guyler +62 21 8908 0197 aguyler@fti.co.id

fluidteknologi.com



AUSTRALASIA

Lubrication Expert



AUSTRALIA, NEW ZEALAND, SOUTH EAST ASIA

Transition Energy



Contact

Rafe Britton +61 (0) 472 842 299 rafe@lubrication.expert

lubrication.expert

Contact

Flagon Bekker (+61) 49 7789 365 flagon.bekker@transition3nergy.com

Partners









info@spectrolytic.com www.spectrolytic.com

Spectrolytic Ltd
1.6 Techcube, Summerhall
Edinburgh, EH9 1PL
United Kingdom
+44 131 6081230

Spectrolytic GmbH Karl-Rapp-Straße 1 92442 Wackersdorf Germany +49 9604 7749201

