

OIL QUALITY SENSOR (ATEX CERTIFIED)

Product Ref: (OQSx EX II)



➔ PRODUCT OVERVIEW

The OQSx Ex II is ATEX Zone 2 certified, providing operators with unmatched real-time oil condition monitoring and equipment status insight, designed for deployment on equipment operating in hazardous areas.

Tan Delta's core technology enables real-time monitoring of synthetic or mineral oil, in any industrial application. Any change in quality or condition, caused by wear and/or contamination is instantly detected, accurately measured and reported. The OQSx Ex II is designed for flexible integration with different head thread sizes to fit any inspection plug point, and multiple data outputs, CANBUS, MODBUS, 4-20mA for plug and play integration.

➔ KEY PRODUCT FEATURES

- **Full Spectrum Holistic™ Detection**
Detects and measures all oil condition changes, no matter the cause.
- **Sensitive**
Even the smallest change is detected enabling early detection of issues before equipment damage.
- **Fully Certified**
The OQSx Ex II is fully certified, ATEX approval to BS EN 60079-0: 2012 and BS EN 60079-11:2013 Ex ic IIA T3 Gc.
- **Robust and Reliable**
Quality engineered from AISI304 stainless steel. IP67 rated, Suitable for deployment on any equipment including ATEX Zone 2.
- **Real Time**
Continuous inline monitoring in real-time, instant detection and reporting
- **Easy to Install**
Simple to configure and install. Maintenance free, continuous operation.

➔ BENEFITS



Lower Operating Costs
Less downtime and less maintenance significantly reduces ongoing operating costs.



Optimise Service Intervals
Optimise service intervals without risking equipment performance and reliability.



Improved Safety
Ensures your equipment is in optimal condition making a safer working environment in existing hazardous areas.



Prevent Catastrophic Failure
Track real-time changes to your oil quality preventing avoidable failures.



OIL QUALITY SENSOR (OQSx EX II)

SPECIFICATIONS

Order Information

Product Name: Oil Quality Sensor
(ATEX Ex ic IIA T3 Gc Certified)
Product Codes: OQSx-EX-II

Physical

Material: Stainless Steel AISI304
Dimensions: 118.2mm x 46mm (L x W)
Weight: 160g
Thread: 1/2" BSPP/ Spanner Size 32mm Hex
Seal: DIN 3869 Viton Seal
(Alternative seals and threads available upon request)

Connections

Glanded cable entry to 2.0m cable for termination inside ATEX junction box.

Electrical

Power Supply: 9-30V DC
Power Consumption: Average 0.4w continuous 30mA
Data Output/Input
Analogue Output: 2x4-20mA (current sourcing, active output)
Digital Output: 1xRS485: 9600 baud half duplex, Modbus protocol supported on RS485, CANbus: CANopen protocol supported on CANbus output.

Oil Quality Detection Parameters

Frequency: 15 per second
Sensitivity: Certified better than 15ppm sensitivity
Accuracy: +/-1%
Elements: All wear/contamination

Oil Type

Configuration: Any synthetic or mineral oil - including fuel oils such as diesel and bio-diesel

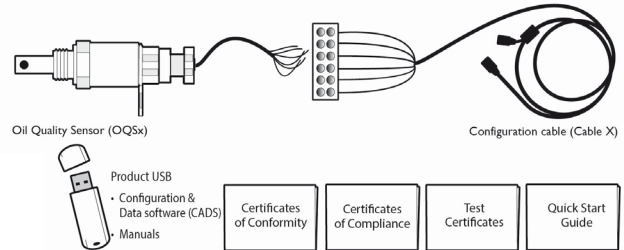
Environmental

Sensor Temperature: -20C to +110C
Fluid Temperature: -20C to +110C
External Pressure: 0 bar (0 psi) to 20 bar (290 psi)
Fluid Pressure: up to 20 bar (290 psi)

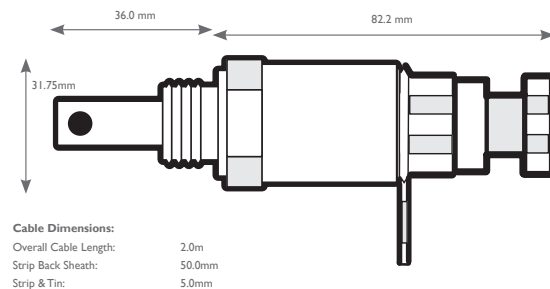
Standards and Certification

Water & Dust: IP67 when connected
Shock & Vibration: BS EN 60068-2-30 (Test Db - Cyclic Humidity)
BS EN 60068-2-6 (Test Fc - Sine Vibration)
BS EN 60068-2-27 (Test Ea - Mechanical Shock)
EMC: EN 61000-6-4:2007 (Generic Emissions Standard for Industrial Environments)
EN 61000-6-2:2005 (Generic Immunity Standard for Industrial Environments)
ATEX approval to BS EN 60079-0:2012 and BS EN 60079-11:2013 Ex ic IIA T3 Gc

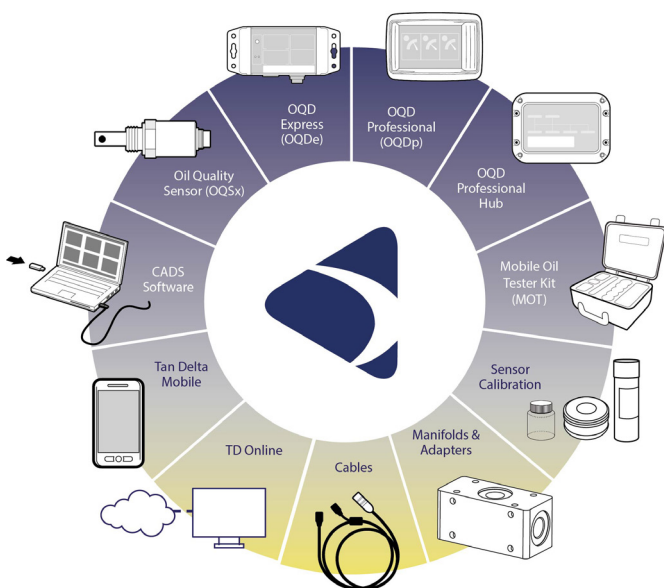
WHATS IN THE BOX



DIMENSIONS



ABOUT TAN DELTA



Tan Delta Systems Limited is a global leader in the development and supply of advanced oil condition monitoring technologies, with a fully integrated product portfolio all engineered and developed from the initial core product, the oil quality sensor (OQSx).

Our products are trusted by the world's leading industrial and commercial companies to monitor oil condition, helping to optimise equipment productivity, reduce operating costs, thereby remaining competitive in a global economy.

All Tan Delta products are engineered and quality manufactured for long term continuous operation in the harshest commercial and industrial environments. Each product is carefully engineered and tested to withstand the long term effects of extreme shock, vibration, heat, cold, thermal shock, electrical interference and many more factors.

The Tan Delta Customer Support team partners with customers to implement highly effective and commercial beneficial oil conditioning. Our experience and expertise enable customers to quickly and smoothly implement successful condition monitoring.

Tan Delta provide ongoing 24/7 global warranty support, technical support, advice and consultancy to ensure customers maximise the long term benefits of their investment in oil condition monitoring.

Tan Delta Systems Limited is always looking to exceed customer expectations, so for this reason reserves the right to alter, without notice, the specification, design or conditions of supply of any product or service. Information provided by Tan Delta Systems is believed to be accurate and reliable. However, no responsibility is assumed by Tan Delta Systems for its use, nor any infringements of patents or other rights of third parties, which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Tan Delta Systems ©Tan Delta Systems Ltd 2017

