

# DISPLAY | EXPRESS (OQDE)

Product No.: OQDe-A-2-1



## PRODUCT DESCRIPTION

The OQDe displays and logs real-time data from the the OQSx-G2 oil condition sensor. The OQDe is the perfect accessory for on-site display and logging of oil condition with configurable alerts for absolute oil condition and rate of change.

The OQDe offers plug and play connectivity via a single cable to an OQSx-G2 sensor and takes only a few minutes to install and configure. It continuously displays real time oil condition using the Tan Delta Number ('TDN') oil condition scale, rate of oil quality change and oil temperature.

All data is continuously logged and can be easily downloaded using the integrated bluetooth or a wired connection to a PC or mobile device. the OQDe is provided with the Tan Delta Mobile application which makes down loading and viewing data to any android mobile phone simple.

## KEY FEATURES

### • CONFIGURABLE OIL QUALITY ALERTS

Configurable traffic light alert system provides simple visual oil quality reference.

### • DATA LOGGER

Continuously logs up to 800,000 records of oil quality data which can be downloaded for analysis.

### • ESSENTIAL INFORMATION

Displays oil quality, temperature and rate of change in real time.

### • ROBUST & RELIABLE

Proven around the world for use in even the most extreme industrial and commercial applications.

### • BLUETOOTH CONNECTIVITY

Stored data can be easily downloaded and sent wherever needed.

### • INDEPENDENTLY TESTED

Has undertaken rigorous independent testing to verify the outstanding performance in a wide variety of applications.



## BENEFITS

Every equipment operator knows that machine monitoring enables effective management and thus increased reliability, efficiencies and profits. Oil condition monitoring with Tan Delta takes this to a new level through much greater insight into the real condition of your equipment, delivering significantly enhanced financial and operating benefits.

### • EXTEND OIL DRAIN INTERVALS

Safely extend oil-life and drain intervals by monitoring real-time degradation, and conduct maintenance when there is actual need rather than on an 'hours run' basis.

### • REDUCE UNPLANNED DOWNTIME

Reliable early detection of potential issues before wear particles are present and damage has already occurred, allows you to pinpoint optimal maintenance prior to breakdowns.

### • UNIQUE TAN DELTA NUMBER

TDN gives actionable data reading, so a maintenance decision can be made immediately, with no need for expert laboratory analysis.

## TECHNICAL DATA

### PRODUCT INFORMATION

Name	OQD Express (OQDe)
Product Number	OQDe-A-2-1

### PHYSICAL

Material	Heat resistant polycarbonate
Dimensions	151mm x 66mm x 42mm (L x W x H)
Weight	300g

### ELECTRICAL

Supply	+9-30V DC
Consumption	0.4w Average, continuous 200mA

### DATA OUTPUT/INPUT

Analog Output	1 x 4-20mA
Digital Output	1xRS485: 9600 baud half duplex to sensor 1xRS485: 115200 baud half duplex from display

### DATA LOGGING

Storage Capacity	<800,000 records
Logging Interval	1 minute to 45 days, 5 minutes fixed
Battery Backup	~10 years
Data Download	Digital or Bluetooth
Real Time Clock	Yes

### ENVIRONMENTAL

Operating Temperature	-30°C (-22°F) to +65°C (+149°F)
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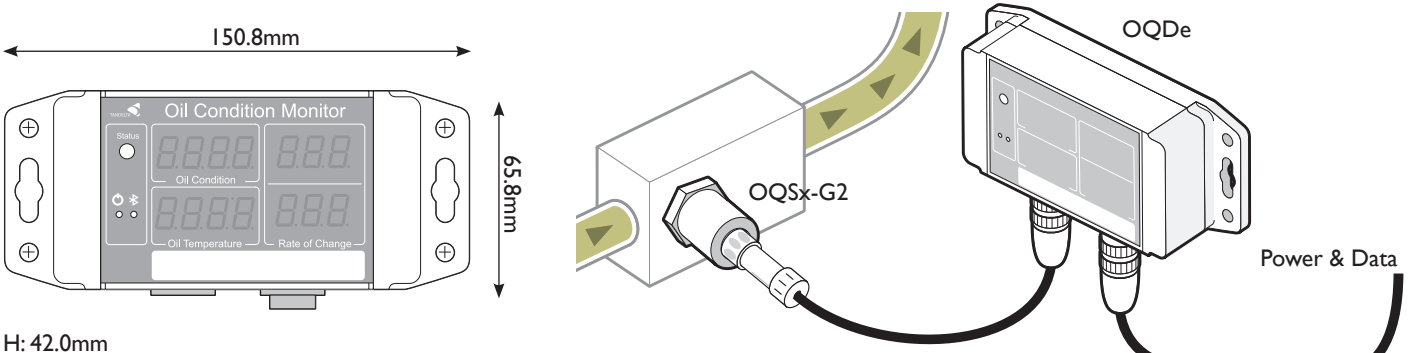
### DISPLAY

Oil Quality	Tan Delta Number (TDN), OQI, LF
Oil Temperature	-20°C (-4°F) to +120°C (+248°F)
Rate of Change	Condition / Time
Status Indicator	LED

### STANDARDS & CERTIFICATION

Water & Dust	IP67 when connected BS EN 60529:1992+A2:2013
Shock & Vibration	BS EN 60068-2-30 (Test Db - Cyc.Hum.) BS EN 60068-2-6 (Test Fc - Sine Vib.) BS EN 60068-2-27 (Test Ea - Mech. Shock)
EMC	EN 61000-6-4:2007 (Generic Emissions Standard for Industrial Environments) EN 61000-6-2:2005 (Generic Immunity Standard for Industrial Environments) EN 61000-6-2:2007 (Generic Immunity Standard for Industrial Environments) EN 300 328 v1.8.1. (Transferable Electromagnetic Compatibility for Wideband Data Transmission Equipment operating in the 2.4GHz ISM Band and using Wideband Modulation Techniques.)
Conformity	CE Marked RoHS Compliant

## DIMENSIONS, INSTALL & CONNECT



## WHY TAN DELTA

Tan Delta's advanced real-time oil condition monitoring is used by equipment owners around the world to improve reliability and reduce costs. Our core FSH technology delivers exceptional real-time oil analysis and condition insight. From wind turbines and ships to mining trucks and railways, Tan Delta real-time oil condition monitoring solutions are proven to deliver substantial operational and financial benefits. Our products are easy to install and use on any equipment and are fully supported by our dedicated support team.



Tan Delta provide OEM equipment manufacturers with fully customised integrated and cost optimised solutions. Please contact us directly to discuss your oil condition requirements.