



OIL QUALITY GATEWAY (OQTG)

Product Ref: OQA-TDG-I

TANDELTA

Oil Condition Monitoring



➔ PRODUCT OVERVIEW

The Oil Quality Gateway (OQTg) has been developed to enable online monitoring and alerting of any asset a Tan Delta oil quality monitoring system is installed onto. Utilising Mobile Data, WiFi and/or Ethernet networks, the OQTg offers you multiple connectivity paths to our bespoke TDOonline monitoring service, enabling you to view the health status and location of your entire fleet of assets at click of a button. Enable custom alerts, dashboards, data logging, and more, using the OQTg.

➔ KEY PRODUCT FEATURES

• System Integration

The OQTg can support 10 sensors simultaneously, and the cables can be varying lengths to ensure easy installation, integration and operation.

• Connectivity to TDOonline

A data hub and dashboard view of monitored assets and alerts you to developing issues prior to any equipment damage or lost production. The interface is similar across desktop/tablet/smart phone views for ease of use

• Simple to Deploy

Allowing quick and simple installation on any piece of equipment whether brand new or being installed as part of a retrofit.

• Industrial Quality

IP67 rated, suitable for installation in any harsh commercial or industrial environment.

• Independently Tested

The OQTg has undergone rigorous independent testing to verify its outstanding performance in a wide variety of applications.

➔ END USER BENEFITS



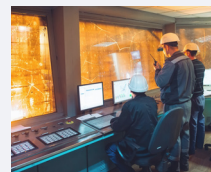
Live Readings

The ability to monitor your critical assets in real-time, pre-empting any wear, damage or potential equipment failure.



Remote Configuration

The ability to fully remotely configure the gateway and associated sensors simplifying installation.



Single Information Point

Amalgamate entire fleets worth of sensors to a single online dashboard (TDOonline) for a central monitoring point.



Advanced Alerting

Alerts include, asset-specific alerts, sensor labelling, and GPS Location, notifying operators of any changes in oil condition across a fleet.

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SPECIFICATIONS

Enclosure

- Glass reinforced plastic
- Environmental protection to IP67 standard: full protection against dust and water.
- Dimensions: 149 x 135 x 58 mm
- Weight: approx. 400g
- Connectors:
- FAKRA antenna connectors
- System connector: TE 776163-1 (35 pins)
- microSD card slot
- Micro SIM slot
- USB host 2.0

GSM/GPRS

Supports multiplexed communication, allowing GSM and SMS events during GPRS sessions.

- GSM850 + EGSM900 + GSM1800 + GSM1900
- Class 4 (2W) GSM850/EGSM900
- Class 1 (1W) GSM1800/ GSM1900
- GPRS Class B, Class 10 (4+2)
- Audio and CSD Data calls
- SMS (MT/MO)
- Optional HSPA+ (3G) and LTE (4G) support

GNSS Positioning

- Receiver: GPS L1 frequency. C/A code
- 56 channels* continuous tracker receiver
- GALILEO L1 openservice and GLONASS ready *
- SBAS: WAAS, EGNOS, MSAS, GAGAN
- Update rate: 4 Hz
- Accuracy: 2.5 meters CEP
- Signal Acquisition:

Cold Start: 29 sec*
Warm Start: 28 sec*
Hot start < 1 sec
Reacquisition < 1 sec

- Active Antenna Power Supply: +3.0V @ 30mA

* Features availability depending on version.

Batteries

For when there is no power supply available:

- Standard backup battery for RTC. Duration 10 years.
- Optional rechargeable Battery Li-Ion 3.7V at least 2600mAh. Inserted via rear battery cover.

Power Supply

- Nominal range: 7V to 48V

System Specs & CPU

- ARM Cortex A8 @800MHz clock speed
- Linux OS: Kernel 4.4
- RAM 512MByte DDR3
- NAND Flash 1GByte
- 32GB+ of additional storage with microSD card

Conformity

- CE
- E - Automotive Zulassung entsprechend Kfz-EMV-Richtlinie R & TTE
- ROHS Directive

Temp Range

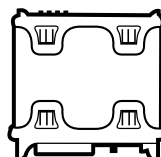
- Storage temperature -40°C to +85°C
- Operating with GSM off -40°C to +85°C
- Operating with GSM on 30°C to +80°C

Other

- Ethernet 10/100 BaseT
- FAKRA antenna connectors
- Wifi 2.4GHz

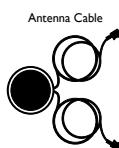
- 1 year internal datalogging
- Support for 10 sensors
- Watchdog
- Ethernet 10/100

WHATS IN THE BOX

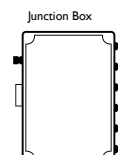


Gateway to Junction Box Cable (Cable H)

- Product USB
- Gateway Configurator software
 - Manual



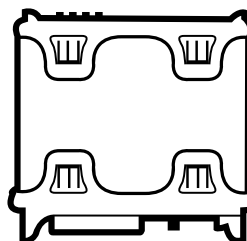
Antenna Cable



Junction Box

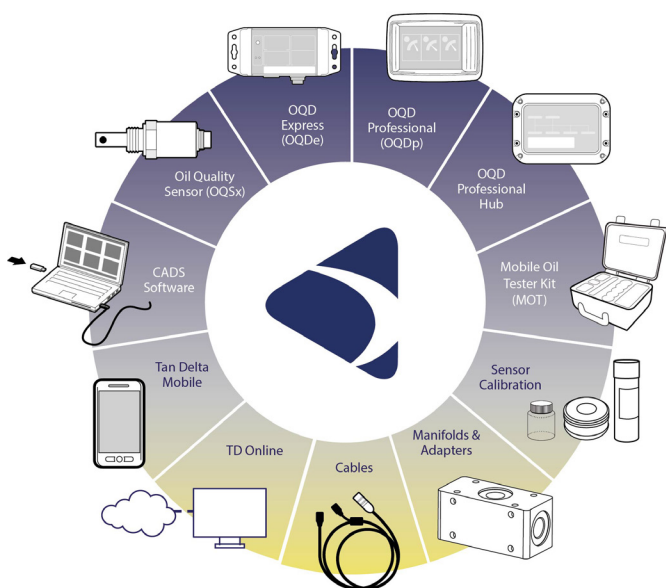


DIMENSIONS



OQTg:
149 x 135 x 58mm
400g

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

