ACCESSORY | GATEWAY (OQTG)

Product No.: OQA-TDG-1

TANDELTA
Oil Condition Monitoring

PRODUCT DESCRIPTION

The Oil Quality Gateway (OQTg) is a sophisticated industrial data communications modem solution that enables data from your OQSx-G2 sensors to be any online M2M / IOT monitoring system such as Tan Delta Online.

OQTg enables data transmission using a variety of methods depending upon location and network availability. These include cellular, WiFi and Ethernet.

KEY 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 TD-ONLINE**
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 it's 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.

- **MONITOR ALL SITE ASSETS**
Connect up to 10 OQSx-G2 sensors using the Gateway and modular cabling system, enabling you to view the health status and location of your entire fleet of assets at click of a button.

- **REDUCE BREAKDOWNS & DAMAGE**
Improve efficiency and extend the life of your equipment by ensuring optimal oil condition and reliable early detection of potential issues before wear particles are present and damage has already occurred.

- **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.

ESG

TECHNICAL DATA

PRODUCT INFORMATION

Name	Oil Quality Gateway (OQTg)
Product Number	OQA-TDG-1

PHYSICAL

Enclosure	Glass reinforced plastic
Dimensions	149mm x 135mm x 58mm (L x H x W)
Weight	400g

CONNECTIONS

Antenna Connector	FAKRA antenna
System Connector	TE 776163-1 (35 pins)microSD card slot
Other	MicroSD card slot Micro SIM slot USB host 2.0 Wifi 2.4GHz Ethernet 10/100 BaseT

GSM / GPRS

GSM	GSM850 + EGSM900 + GSM1800 + GSM1900 Class 4 (2W) GSM850/EGSM900 Class 1 (1W) GSM1800/GSM1900
GPRS	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

Accuracy	2.5 meters CEP
Signal Acquisition	Cold Start: 29 sec* Warm Start: 28 sec* Hot start < 1 sec Reacquisition < 1 secActive Antenna

POWER

Supply	+3.0V @ 30mA
Nominal Range	7V to 48V
Batteries	Standard backup battery for RTC. Duration 10 years. Optional rechargeable Battery Li-Ion 3.7V at least 2600mAh. Inserted via rear battery cover.

SYSTEM SPECS & CPU

ARM cortex A8	800MHz clock speed
LINUX OS	Kernel 4.4
RAM	512MByte DDR3
NAND Flash	1 GByte
Additional Storage	32GB+ with MicroSD card

ENVIRONMENTAL

Storage Temperature	-40°C to +85°C (-40°F to + 185°F)
Operating GSM Off	-40°C to +85°C (-40°F to + 185°F)
Operating GSM On	-30°C to + 80°C (-22°F to + 176°F)
Li-On Battery	-20°C to + 60°C (-4°F to +140°F) (recharge 0°C to + 45°C, 113°F)

STANDARDS & CERTIFICATION

Conformity	CE Marked E - Automotive Zulassung entsprechend Kfz-EMV-Richtlinie R & TTE RoHS Compliant

DIMENSIONS, INSTALL & CONNECT
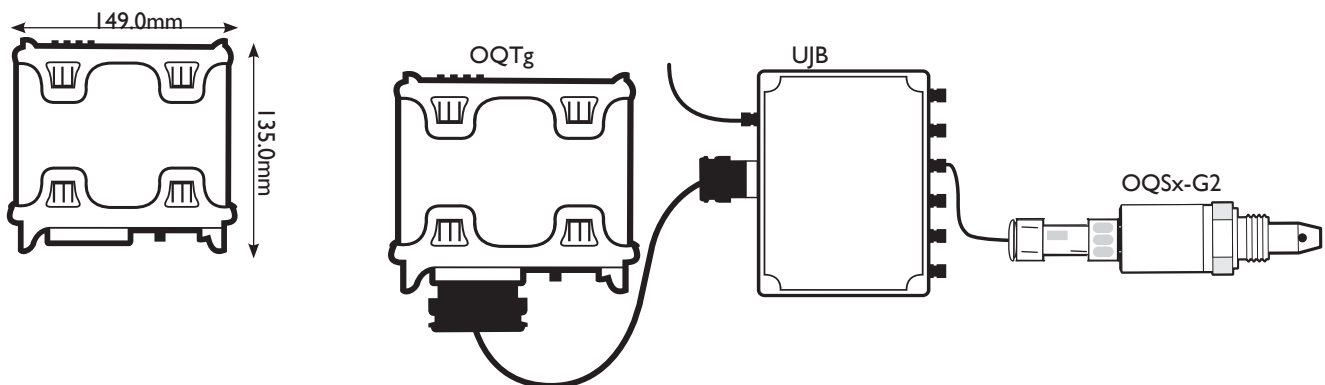
*The OQTg can be connected as part of a wider modular cabling system. Details provided seperately.

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.

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