The Renold SmartGearbox OCMS
Oil Quality Display – OQD Express

The Renold Gears Oil Quality Display (OQD) is the perfect partner for the Renold Gears Oil Quality Sensor (OQSx).

The OQD Express (OQDe) displays and logs real-time data from the Oil Quality Sensor (OQSx). Oil quality, temperature, rate of change, and configurable quality level alerts are displayed in real time.

Displays 20/20 vision of your oil condition.

Key Features

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

**Bluetooth Connectivity**
Stored data can be easily downloaded and sent wherever needed.

**Configurable 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.

**Robust and Rugged**
The rugged IP67 rated enclosure and high-quality industrial connectors make this unit very reliable.

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

Key Benefits

**Increased Reliability**
Detects and reports the early signs of hidden issues enabling remedial action to prevent accelerated wear and unexpected breakdowns.

**Help the Environment**
Increase equipment efficiency. Reduce oil consumption, maintenance activity and costs and conserve the environment.

**Fewer Service Intervals**
Less maintenance and servicing means increased equipment availability and reduced costs.

**Peace of Mind**
Knowing that your critical equipment is being monitored 24 hours a day, 365 days a year.
The Renold SmartGearbox OCMS
Oil Quality Display

Dimensions

In the box

Ordering information

Standard Display Unit = OQD-A-1-0
Standard Display Unit (with data logging) = OQD-A-1-1

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Specifications

- Order Information
  Product Name: OQD Express (OQDx)
  Product Code: OQDx-A-2-1

- Physical
  Material: Heat Repellent Polycarbonate
  Dimensions: 120 mm x 66 mm x 42 mm (L x W x H)
  Weight: 300 g

- Electrical
  Power Supply: 9-30 V DC
  Power Consumption: Average 0.4w continuous 200mA

- Data Output/Input
  Analogue Output: 1 x 4-20mA
  Digital Output: 1 x RS485: 9600 baud half duplex to sensor
                  1 x RS485: 512000 baud half duplex from display

- Environmental
  Operating Temperature: -30ºC (~–22ºF) to +65ºC (~149ºF)

- Data Logging
  Storage Capacity: >800,000 records
  Logging Interval: 1 minute to 45 days
  Battery Backup: ~10 years
  Data Download: Via RS485 or Bluetooth
  Real Time Clock: Yes

- Display
  Oil Quality
  Temperature
  Rate of Change (Condition/Time)
  Status Indicator

- Standards and Certification
  Shock & Vibration:
    - Test Db – Cyclic Humidity
    - Test Fc – Sine Vibration
    - Test Ea – Mechanical Shock
  EMC:
    - EN 61000-6-4:2007
    - EN 61000-6-2:2008
    - EN 300 328 v1.8.1.
  CE Marked

You may require additional cables to complete your installation. Please refer to the Renold Systems Architecture diagrams below.