



The TOUGH M6M Dissolved Oxygen System is amperometric membrane technology at its best and has proven itself over almost three decades in the toughest mining conditions.

TOUGH M6M Dissolved Oxygen System – Inline

Features

- Long sensor life – Ultra Tough sensors last up to 20 years in clean applications and 5 years in harsh mining slurries
- Long-term continuous in-tank submersion
- 0 to 40ppm
- Extra-long calibration stability – 3 to 4 months
- Calibrates easily in the air – No zero solutions
- Low maintenance – Most applications require only annual maintenance.



TOUGH M6M
Dissolved Oxygen Analyser



TOUGH M6S
Dissolved Oxygen Sensor



TOUGH M6M Dissolved Oxygen System – Inline



TOUGH M6M Dissolved Oxygen Analyser

When it comes to TOUGH, nothing surpasses the Turtle Tough's M6M Dissolved Oxygen Inline System. For almost thirty years this unit has been used worldwide throughout the mining community, renowned for its extreme durability and low maintenance in some of the world's harshest conditions.

Utilising a Teflon membrane there have been many sceptics, tainted by their experience with cheap membrane technology that drifts, is unrepeatable and that fails due to tears and ruptures of the membrane that ultimately contaminate and destroy the sensor.

The TOUGH M6M Dissolved Oxygen system couldn't be more different. This German-made technology sets a new benchmark in membrane technology. The ultra-tough teflon membranes are resilient to highly abrasive slurries and maintain excellent repeatability and accuracy. The membrane usually only requires replacement annually at the recommended service interval.

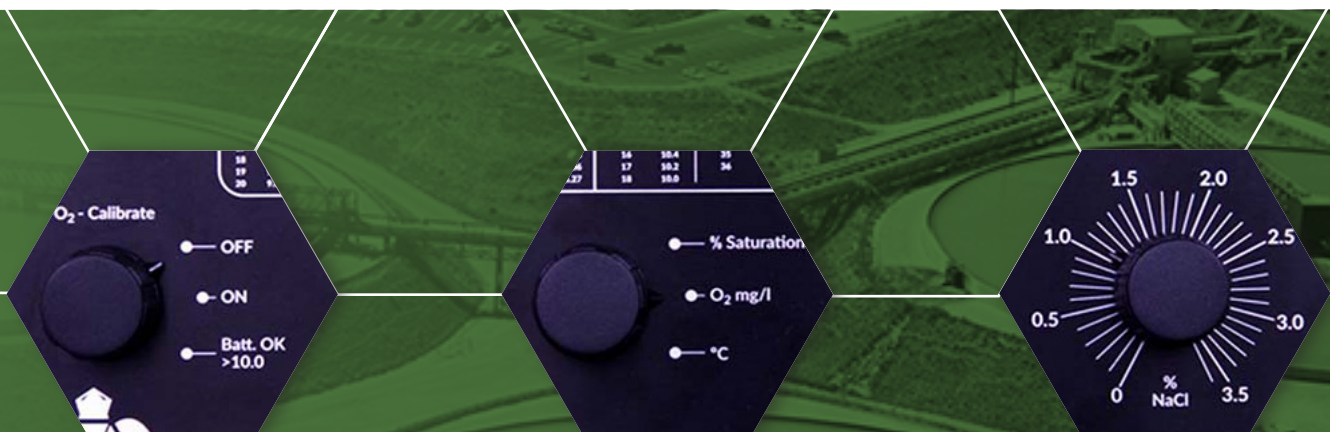
Calibration stability is an astounding 3-4 month and the units simply calibrate in the air, without any need for zero solutions.

The sensor is an extremely fast response, which is critical for applications that demand accuracy or measure at high ppm. Operators rarely allow the required time for stabilisation, so the fast response of the sensor means less human error and high accuracy. The standard unit is capable of 0-40ppm while 0 to 60ppm is optional.

The Turtle Tough, TOUGH M6M Inline Dissolved Oxygen Analyser is powered by 240 Volts (110V optional) and has a robust IP65 enclosure for direct on-tank installations. The enclosure is seriously tough. Made from ABS plastics in an IP65 enclosure the major components and switches are all replaceable.

To this day we still see field serviceable units that are greater than 25 years old. It is truly a testament to the quality and longevity of this model, one that has stood the test of time. An optional enclosure can be provided to withstand harsh wash down or shield from direct sunlight.

The TOUGH M6M Dissolved Oxygen Analyser integrates with our TOUGH M6S Dissolved Oxygen sensor, which is specifically designed for continuous in-tank submersion at temperatures up to 80°C.



Product name	TOUGH M6M Dissolved Oxygen System – Inline
Code	TOUGH-M6M-DO
O ₂ -Measuring range	0.0 – 40.0 ppm dissolved O ₂
O ₂ -Accuracy	± 0.5 % of full-scale point
°C-Measuring range	0.0 – 50.0 °C
°C-Accuracy	± 0.1°C, automatic temperature compensation
Recorder outputs	2 simultaneous O ₂ : 0.0 – 40.0 ppm / 0 - 400 mV °C: 0.0 – 50.0 °C / 0 - 500 mV
Power supply	240 V AC / 50/60 Hz - 2 VA Battery with integrated charger
Burden	< 800 Ω, short-circuit proof
Fuse	0.5 A
Display	13 mm high, 3-½ digit LCD
Sensor	All active and passive TOUGH Dissolved Oxygen sensors
Calibration	Air calibration in the atmosphere
Housing	IP65, PVC housing
Dimensions	200 x 270 x 250 mm (H x W x D: approx.)
Weight	2.3 kg approx.
Field case	385 x 355 x 180 mm (H x W x D) approx. Weight 1.5 kg approx.