



The TOUGH Dissolved Oxygen Optical Smart sensor is ideal for water, wastewater treatment and aquaculture applications.

## TOUGH Dissolved Oxygen Optical Smart Sensor

### Features

- Direct Smart Sensor with on-board data processing
- Strong polypropylene body
- Quick connect plugs – eliminate hard-wiring of sensors and allow for instant hot-swap
- Communication: MODBUS RTU (RS-485) output
- Ideal for Water, Wastewater treatment and aquaculture applications



TOUGH Dissolved Oxygen  
Optical Smart Sensor

## TOUGH Dissolved Oxygen Optical Smart Sensor



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The sensor's polypropylene body has incredibly high mechanical strength and resilience. It is resistant to various organic solvents and strong acids and alkalis.

The Smart Digital Sensor with direct MODBUS RTU output can directly interface with your industrial network or connect with our range of communication hardware. This sensor is ideal for Water, Wastewater treatment and aquaculture applications.

### SMART Sensor Technology

SMART Sensors have revolutionised the way our customers manage and maintain sensors. Unlike most other smart sensors, Turtle Tough provide you with the option of a propriety digital signal or an open-source Modbus RTU signal that is universally accepted. This allows the sensor to be directly connected to your industrial network without the need for proprietary hardware. Turtle Tough also provide state-of-the-art analysers and controllers should you require a sophisticated turnkey control solution. SMART sensors have the added benefit of storing a detailed performance history and diagnostics on-board enabling superior sensor management. Sensors can be cleaned and calibrated offline to facilitate a hot-swapping maintenance regime. Need to know more about [hot-swapping?](#) Ask our team





## Specifications

<b>Product Name</b>	TOUGH Dissolved Oxygen Optical Smart Sensor
<b>Code</b>	TT-TOUGH-DSS3-DO-OPT
<b>Measurement</b>	Dissolved Oxygen
<b>Measurement Range</b>	0-50mg/L
<b>Measurement Accuracy</b>	±0.1mg/L
<b>Output Communication</b>	RS485 MODBUS RTU
<b>Resolution</b>	0.01mg/L
<b>Housing Material</b>	Polypropylene
<b>Pressure Resistance</b>	22 PSI
<b>Temperature Range</b>	0-55°C; Measuring accuracy: ±0.1°C; Resolution: 0.1°C
<b>Cable Length</b>	10m cable (optional lengths available)
<b>Thread</b>	¼" MNPT
<b>Connection</b>	Quick connect plugs
<b>Dimensions</b>	Ø25*165mm
<b>Application</b>	Water, Wastewater treatment, Aquaculture and Environmental
<b>Warranty</b>	12 Month Conditional Warranty. Go to <a href="https://turtletoughsensors.com/support/warranty-returns">turtletoughsensors.com/support/warranty-returns</a>