

# OxyMaster 16TDP

**Oxygen and Humidity Measurement in One Unit**

The Edgetech Instruments OxyMaster 16 TDP provides accurate and economic measurement of oxygen and dew/frost point at trace levels. A simple menu-driven software, touchpad and large LCD display allow easy and fast startup of the instrument. The unit measures humidity between 0.1 and 1000 PPM and oxygen between 0 and 10000 PPM.

The user can select any range within 0 to 10000 PPM and 0.1 to 1000 PPM moisture. Programmable concentration alarm and a system alarm give versatility meeting almost any requirement. Two, 4 to 20 mA data outputs for oxygen concentration and dew/frost point are standard. Other outputs are available on request. RS485 is an option.

The OxyMaster uses a special fuel cell to measure the oxygen concentration. The sensor meets the industrial requirements for accuracy, sensitivity, easy to use and operating life. A phosphorus pentoxide cell is used to measure moisture. Calibration of the instrument for trace oxygen measurement should be done with a calibration gas. The concentration can be chosen anywhere within the measuring range.

Edgetech Instruments' services are performed in the USA at their modern, well-staffed, ISO/IEC 17025:2005 accredited, ISO 9001:2015 registered manufacturing facility. All recertifications and calibrations are traceable to NIST.

## Applications

- Semiconductor Industry
- Gas Manufacturers
- Metallurgical Industries
- Chemical Industry



**The OxyMaster 16TDP**

## Features

- Compact economic instrument with sensor separate from the electronics
- Sensor with long operating life.
- No range switching required
- Instructions and error messages in normal text
- The stainless steel measuring cell is modular
- A defective measuring cell can be repaired by replacing the cell only rather than the complete unit

 **Edgetech Instruments**

ISO 9001:2015 Registered

ISO/IEC 17025:2005 Accredited

## Technical Specifications

### Measuring range:

- 0 to 10000 PPM O<sub>2</sub>, programmable
- Lowest range 0 to 10 PPM
- Humidity range: 0.1 to 1000 PPM, programmable

### Calibration:

- With calibration gas

### Accuracy:

- $\pm 2\%$  FSD (T= const.),  $\pm 5\%$  FSD over full temperature range
- $\pm 1$ ppm over 0 to 10 PPM range

### Resolution:

- 0.1 ppm up to 100 PPM
- 1 ppm from 100 to 10000 PPM
- 0.1 PPM moisture over entire range

### Response time:

- 90% of FSC at 25°C, 0 to 10 ppm < 45 sec.
- T90 of step changes, < 60 sec.

### Operating Temperature:

- 0 to 50°C

### Pressure:

- 0.1 to 1 bar

### Outputs:

- Two, 4 to 20 mA/dc isolated

### Display:

- Graphic

### System Diagnostics:

- Self-diagnostic with display

### Power:

- 85 to 230 Vac, 44/60 Hz

### Oxygen Sensor:

- Micro-Fuel Cell,

### Sensor warranty:

- 1 year under normal use and maintenance

### Expected sensor life:

- Over 2 years

### Dimensions:

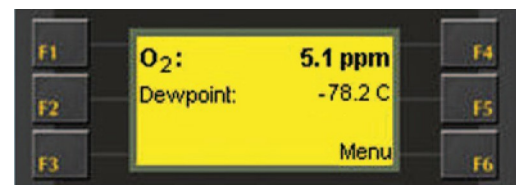
- 9 x 8 x 605 in. (232 x 202 x 163 mm)  
W x H x D
- Weight: 11 lb. (5 kg)



The OxyMaster Oxygen Measuring Cell



The OxyMaster Humidity Measuring Cell



The OxyMaster Display

Toll Free: 800-276-3729 Ph: 978-310-7760 Fax: 978-310-7767

E-mail: [H2O@edgetechinstruments.com](mailto:H2O@edgetechinstruments.com)

Web: [www.edgetechinstruments.com](http://www.edgetechinstruments.com)

Rev v2

 **Edgetech Instruments**

ISO 9001:2015 Registered

ISO/IEC 17025:2005 Accredited