

## Digital Communication

The other choice is to use the TruDO Optical sensor with digital RS485 ModBus RTU communication e.g.; with TruBio. With this option more information than just the dissolved oxygen reading can be retrieved from the sensor. Additional information includes: duration of use, time at elevated temperature, and cap health. Like the other modes of operation listed above you must supply power to the sensor (7 to 30 VDC). The dissolved oxygen sensor then acts as a slave device and can be used as one of up to 32 devices.

TruDO Optical 12 mm diameter dissolved oxygen sensors provide superior performance, greater repeatability and improved reliability in bioprocess applications such as cell culture and fermentation.

### Specifications

Measurement	Optical phase shift
Dissolved Oxygen Range	0.05 to 300% saturation 4 ppb to saturation
Temperature	0 to 130°C
Pressure	12 bar maximum
Temperature Compensation	22 kohm thermistor
Wetted materials	316L S.S., USP class 6 silicone

### Sensors 12mm

DOS-OPT-VP-120  
 DOS-OPT-VP-160  
 DOS-OPT-VP-225  
 DOS-OPT-VP-325  
 DOS-OPT-VP-425

### VP 8.0 Cables

CAB-VP8-10, 10 ft/3m  
 CAB-VP-15, 15ft.5m

### Replacement Cap

DOS-OPT-CAP

### Power Adapter for D4/T82 Cables

DOS-OPT-PWR-ADT

### 4-20 mA Output Adapter

DOS-OPT-420-ADT

### Polarizers

None required

### Replacements for 12mm

Replaces Broadley-James Model D140/D145  
 Replaces Mettler-Toledo/Ingold Model InPro 6800

