Orbisphere Hach 3100 LDO Portable dissolved oxygen
Industrial kit with US power plug and ¼" inlet tubing.

Product #: DGK3100-MB2040
USD Price: Contact Hach
Call for ship date

The most rugged portable dissolved oxygen analyzer in the industry.

With Luminescent Dissolved Oxygen (LDO) technology integrated, this analyzer is guaranteed to improve process efficiency, minimize waste and provide accurate dissolved oxygen measurements. Ideally used in the industrial and power industries for both laboratory and process environments, it measures dissolved oxygen at ppb level. It has a maximum uptime with lowest preparation and cleaning time.

Robust design that endures harsh environments
The Hach Orbisphere 3100 Portable is the most rugged dissolved oxygen analyzer in the industry. Designed to withstand the harshest environments with a stainless steel enclosure. The bright, color graphic display provides clear results in dark, cold or wet environments.

Fast, accurate results
Advanced optical technology provides accurate results in seconds. The Hach Orbisphere 3100 with optical sensors responds more rapidly than electrochemical sensors, allowing operators to take more measurements in less time.

One calibration per year
Optimized electronics and sensor optics in the 3100 mean you only need to calibrate once per year. The Hach Orbisphere 3100 dissolved oxygen portable maintains measurement accuracy significantly longer than other optical sensors, resulting in the most stable oxygen sensor with the longest calibration interval in the industry.

Low maintenance
With no membranes to replace or electrolyte to replenish, time spent servicing the sensor is cut in half. The optical sensing spot can be replaced and calibrated by the user, minimising down time. To ensure quality maintenance, a programmable reminder indicates when annual service and recalibration are scheduled.

Flexible communications
The Hach Orbisphere 3100 portable offers a high level of data confidence and efficiency by using a USB port to extract data captured by the instrument. The instrument is capable of capturing data for specific measurement points or continuously monitoring a process, recording up to 5,700 data points as a remote datalogger. An internal alarm system allows operators to see instantly which production processes are out of range.

Specifications

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<tbody>
<tr>
<td><strong>Accuracy:</strong></td>
<td>± 0.8 ppb or ± 2 %</td>
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<td><strong>Application:</strong></td>
<td>Beverage</td>
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<td><strong>Battery Life:</strong></td>
<td>Rechargeable battery, Lithium Ion, 10 hours of continuous use</td>
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<td><strong>Certifications:</strong></td>
<td>LVD IEC/EN 61010-1</td>
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<td>EMC IEC/EN 61326-1</td>
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Ecodesign Directive

Communication:
Data monitoring per RS232
Data/configuration transfer per USB key

Communication Capabilities:
RS232 - USB Key

Connections:
6 mm (¼”)

Data Storage:
5700 measurements

Dimensions (H x W x D):
200 mm x 170 mm x 190 mm

Display:
TFT color 72 x 54 mm

Includes:
3100 instrument, external power supply, US power plug, 3 m inlet tubing, tool kit

Lower Limit of Detection (LOD):
0.6 ppb

Material:
Enclosure: Stainless steel, IP66 with polycarbonate sides

Operating Temperature Range:
-5 - 45 °C

Parameter:
Oxygen

Range:
0 - 2000 ppb

Response Time:
< 15 s

Sample Interval:
5 - 60 s

Sample Pressure:
0 - 10 bar

Sample Temperature:
-5 - 45°C (41 - 113°F)

Units:
ppb, ppm, wt %, mg/L, O₂ %, mbar and more

Weight:
< 3.5 kg

What’s in the box?

3100 instrument, external power supply, US power plug, 3 m inlet tubing, tool kit