



Dissolved Oxygen Handheld Meters

Get Better Accuracy. Oakton Instruments offers only galvanic probes with its meters for one key reason—low drift. Low drift means better accuracy because the calibration lasts longer. Galvanic probe technology is slightly more expensive to manufacture than simple polarographic systems. However, for results you can count on all day—or night—in the field, we think it is worth it. Combine the superior probe technology with the application-specific microprocessor technology in Oakton® DO meters, and there is no doubt these are meters that deliver reliable, accurate results.

A Better Value. Besides accuracy, you want good value when it comes to DO instruments. The value built into our DO meters is the result of our drive for quality, functionality, and durability. This commitment inspires us to do the extra things that may not be instantly apparent—from our use of custom thermoplastic housing materials for superior chemical and temperature durability, to our waterproof models' unique isolated battery and sensor input compartments that protect the meter even when it is not properly assembled by the user. Or, our informative icons on our LCD, and our probe start-up kit included with every

meter. All of these things combine to give you a superior product that delivers long-term utility and value.

Lots of Options. Oakton gives you a host of product options that enable you to select the best DO measurement system for your needs. We offer an economical meter for those less demanding environments, such as your indoor applications. Our full-featured model with backlit display is perfect for outdoor and nighttime use. And, we offer a combination pH/DO meter that features—in a single unit—the two most important chemical measurements in aquaculture and wastewater treatment applications. In support of these meter options, we offer DO probes with varying cable lengths up to 100 feet. Finally, we provide a variety of support products, including field calibration kits and accessories.

Get More For Your Money. Better accuracy, better value, and more options—all are yours with Oakton DO meters, the best choice in the long run.



Handheld Dissolved Oxygen Meter Selection Guide

Use this handy comparison chart to help select the dissolved oxygen meter right for your application. Our superior, low-maintenance galvanic probes let you take readings immediately—no warmup required!



Acorn® Series



Standard Series



Waterproof 300 Series



Waterproof 600 Series

See page 51 to order replacement DO probes and accessories.

Meter	Acorn® series	Standard series	Waterproof 300 series	Waterproof 600 series
See page	48	49	50	51
Special features	Our most economical DO meter	Dual-line display, optional AC power	Waterproof, dustproof plus backlit display	Most powerful ideal for the field
DO range	0.00 to 20.00 mg/L (ppm); 0.00 to 200.0%	0.00 to 20.00 mg/L (ppm); 0.00 to 200.0% saturation	0.00 to 20.00 mg/L (ppm); 0.00 to 200.0% saturation	0.00 to 20.00 mg/L (ppm); 0.00 to 200.0% saturation
DO resolution	0.01 mg/L (ppm); 0.1% saturation	0.01 mg/L (ppm); 0.1% saturation	0.01 mg/L (ppm); 0.1% saturation	0.01 mg/L (ppm); 0.01% saturation
DO accuracy	±1.5% full-scale	±1.5% full-scale	±1.5% full-scale	±1.5% full-scale
Probe technology	Galvanic	Galvanic	Galvanic	Galvanic
Waterproof/dustproof	—	—	Yes	Yes
Memory function	—	Up to 16 sets of readings	Up to 50 sets of readings	Up to 500 sets of readings
Backlit display	—	—	Yes	Yes
Real-time clock	—	—	Yes	Yes
°C/°F selectable	—	—	Yes	Yes
Protective rubber boot	Yes	—	—	Yes
Built-in stand	Yes	Yes	—	Yes
Optional AC power	—	Yes	—	Yes

Acorn® DO 6 Meter

Compact and economical—
rugged rubber boot protects meter

No meter warm-up required

- ▼ Galvanic probe design lets you take measurements immediately without the typical 15-minute wait!

Easy-to-service, low-maintenance probe

- ▼ Replaceable membrane cap assembly makes probe maintenance hassle-free! Simply fill cap with electrolyte solution and screw on.

Key in salinity and pressure values manually

- ▼ Automatically calculates the offset value for increased accuracy

Independent 100% and zero adjustment calibrations

- ▼ Gives meter high accuracy across entire measuring range

Offset adjustment capabilities

- ▼ Calibrate your meter to a known work standard or titrimetrically determined value

Displays electrode diagnostics

- ▼ Gives slope, zero offset, and millivolt values to help determine when you need to service or replace electrode

Easily toggle from mg/L (ppm) or % saturation to temperature mode

See page 53 to order
replacement DO probes
and accessories



Left: DO 6 shown with DO probe.

Right top: Protective rubber boot features a built-in stand

Right: DO 6 meter kit

Specifications

Mode	mg/L (ppm)	% Saturation	Temperature
Range	0.00 to 20.00 mg/L (ppm)	0.0 to 200.0%	-5.0 to 105.0°C
Resolution	0.01 mg/L (ppm)	0.1%	0.1°C
Accuracy	±1.5% full-scale	±1.5% full-scale	±0.5°C

Temperature compensation: automatic from 0 to 50°C

Operating temperature: 0 to 50°C

Salinity correction

Range: 0.0 to 50.0 ppt

Resolution: 0.1 ppt

Method: key in manually and automatic correction

Barometric pressure correction

Range: 500 to 1499 mm Hg

Resolution: 1 mm Hg

Method: key in manually and automatic correction

Probe: galvanic

Memory: none

Power: four 1.5 V AAA batteries (included), >700 hrs continuous use

Dimensions

Meter: 5.5"L x 2.7"W x 1.3"H (14 x 7 x 3.5 cm)

Boxed: 8.3"L x 5.9"W x 3"H (21 x 15 x 7.5 cm)

Probe: 5"L x 0.5" dia (11.5 cm L x 1.2 cm dia)

Weight

Meter: 1.0 lb (0.45 kg); Boxed: 1.4 lb (0.64 kg)

ISO9001:2000
CERTIFIED SUPPLIER

CE 2 year
warranty

Applications

Aquacultural: Monitor oxygen levels in catfish and shrimp farming, game fishing ponds, ornamental fish tanks and ponds, and in other fish farming applications.

Environmental: Test water quality, monitor health of aquatic ecosystems, survey surface and ground water drinking supplies, and meet EPA regulations.

Industrial: Use to check the quality of plant water intake and discharge, wastewater and water treatment, recirculating systems, and industrial process systems.

Educational: Ideal for quick, accurate dissolved oxygen readings in labs and schools.

Ordering Information

Catalog number	Description	Includes
WD-35642-11	DO 6 meter only	Meter and batteries
WD-35642-10	DO 6 meter	Meter, DO probe 35642-50 with 3-ft cable, electrolyte solution, replacement membrane cap, and batteries
WD-35642-60	DO 6 meter kit	Meter, DO probe 35642-50 with 3-ft cable, electrolyte solution, two replacement membrane caps, three sample bottles, hard carrying case with space for meter and probe, and batteries

Accessories

WD-35642-55 Maintenance kit includes replacement membrane cap and 10 mL of electrolyte solution

WD-35640-71 Replacement electrolyte, premixed 500-mL bottle



DO 110 Meter

Measure dissolved oxygen immediately—no meter warm-up required

No meter warm-up required

▼ Galvanic probe design lets you take measurements immediately without the typical 15 minute wait!

Easy-to-service, low-maintenance probe

▼ Replaceable membrane cap assembly makes probe maintenance hassle-free! Simply fill cap with electrolyte solution and screw on.

Key in salinity and pressure values manually

▼ Meter automatically calculates the offset value for increased accuracy

Independent 100% and zero adjustment calibrations

▼ Gives meter high accuracy across entire measuring range

Offset adjustment capabilities

▼ Calibrate your meter to a known work standard or titrimetrically determined value

Stores and recalls 16 DO readings with corresponding temperature

Displays electrode diagnostics

▼ Gives slope, zero offset, and millivolt values to help determine when you need to service or replace electrode

Dual-line display simultaneously shows mg/L (ppm) or % saturation, plus temperature



Left: DO 110 shown with DO probe.

Below: Soft carrying case allows hands-free operation (order separately). Optional probe, with 25-, 50-, or 100-ft cable help to meet your field applications.



Specifications

ISO9001:2000
CERTIFIED SUPPLIER

CE 2 year warranty

Mode	mg/L (ppm)	% Saturation	Temperature
Range	0.00 to 20.00 mg/L (ppm)	0.0 to 200.0%	0.0 to 50.0°C
Resolution	0.01 mg/L (ppm)	0.1%	0.1°C
Accuracy	±1.5% full-scale	±1.5% full-scale	±0.1°C

Temperature compensation: automatic from 0 to 50°C

Operating temperature: 0 to 50°C

Salinity correction

Range: 0.0 to 50.0 ppt

Resolution: 0.1 ppt

Method: key in manually and automatic correction

Barometric pressure correction

Range: 555 to 808 mm Hg

Resolution: 1 mm Hg

Method: key in manually and automatic correction

Probe: galvanic

Memory: stores and recalls 16 sets

Power: four 1.5 V AAA batteries (included), >50 hrs continuous use; 9 V, 500 mA AC adapter (optional)

Dimensions

Meter: 7.5"L x 3.5"W x 1.75"H (19 x 9 x 4.5 cm)

Boxed: 9.2"L x 9.2"W x 2.75"H (23 x 23 x 7 cm)

Probe: 6.8"L x 1.3" dia (17.3 cm L x 3.2 cm dia)

Weight

Meter: 1.0 lb (0.45 kg); Boxed: 1.4 lb (0.64 kg)

Applications

Aquacultural: Monitor oxygen levels in catfish and shrimp farming, game fishing ponds, ornamental fish tanks and ponds, and in other fish farming applications.

Environmental: Test water quality, monitor health of aquatic ecosystems, survey surface and ground water drinking supplies, and meet EPA regulations.

Industrial: Use to check the quality of plant water intake and discharge, wastewater and water treatment, recirculating systems, and industrial process systems.

Educational: Ideal for quick, accurate dissolved oxygen readings in labs and schools.

Ordering Information

Catalog number	Description	Includes
WD-35640-22	DO 110 meter only	Meter and batteries
WD-35640-20	DO 110 meter	Meter, DO probe 35640-50 with 10-ft cable, electrolyte solution, two replacement membrane caps, and batteries
WD-35640-64	DO 110 meter kit	Meter, DO probe 35640-50, 500 mL of electrolyte solution, two replacement membrane caps, three sample bottles, hard carrying case with space for meter and probe, and batteries

Accessories

WD-35615-07 AC adapter, 9 VDC to 110 VAC

WD-35615-08 AC adapter, 9 VDC to 220 VAC

WD-35615-75 Soft carrying case

See page 53 to order replacement DO probes and accessories

DO 300 Meter

Advanced, high-accuracy dissolved oxygen meter with superior waterproof housing...and it FLOATS!

Waterproof, dustproof housing with IP67 rating

Very low drift probe

- ▼ For enhanced stability and repeatability

Input salinity and pressure values manually

- ▼ Meter automatically calculates the offset value for increased accuracy

Independent 100% and zero adjustment calibrations

- ▼ For high accuracy over the full meter range

Offset adjustment capabilities

- ▼ Calibrate your meter to a known work standard or titrimetrically determined value

Keypad-adjustable backlit display

- ▼ Ideal for viewing readings in dark areas

No meter warm-up required

- ▼ Galvanic probe design lets you take measurements immediately without the typical 15-minute to 4-hour wait!

Easy-to-service, low-maintenance probe

- ▼ Replaceable membrane cap assembly makes probe maintenance hassle-free—simply fill cap with electrolyte solution and screw on

Expanded memory stores up to 50 DO/temp readings

Real-time clock

- ▼ Time/date stamps data stored in memory and calibration data (GLP friendly)

Display electrode diagnostics

- ▼ View slope, zero offset, and millivolt values

Dual-line display simultaneously shows mg/L (ppm) or % saturation, plus temperature

°C/°F selectable



At left: DO 300 meter with galvanic probe (included).

Above right: IP67-rated housing floats!

35641-00

Specifications

Mode	mg/L (ppm)	% Saturation	Temperature
Range	0.00 to 20.00 mg/L (ppm)	0.0 to 200.0%	0.0 to 50.0°C (32.0 to 122.0°F)
Resolution	0.01 mg/L (ppm)	0.1%	0.1°C (0.1°F)
Accuracy	±1.5% full-scale	±1.5% full-scale	±0.3°C (±0.3°F)

Temperature compensation: automatic from 0 to 50°C

Operating temperature: 0 to 50°C

Salinity correction

Range: 0.0 to 50.0 ppt

Resolution: 0.1 ppt

Method: key in manually and automatic correction

Barometric pressure correction

Range: 500 to 1499 mm Hg, 66.6 to 199.9 kPa

Resolution: 1 mm Hg, 0.1 kPa

Method: key in manually and automatic correction

Probe: galvanic

Memory: 50 sets

Real-time clock: stamps calibration data and stored data with time and date (month and day)

Backlit display: eight levels of brightness

Power: four 1.5 V AAA batteries (included), >100 hours continuous use; use of backlit display decreases battery life

Dimensions

Meter: 7.5"L x 3.5"W x 1.75"H (19 x 9 x 4.5 cm)

Boxed: 9.2"L x 9.2"W x 2.75"H (23 x 23 x 7 cm)

Probe: 6.8"L x 1.3" dia (17.3 cm L x 3.2 cm dia)

Weight

Meter: 1.0 lb (0.5 kg); Boxed: 2.0 lb (0.9 kg)

Ordering Information

Catalog number	Description	Includes
WD-35641-01	DO 300 meter only	Meter and batteries
WD-35641-00	DO 300 meter kit	Meter, DO probe 35640-50 with 10-ft cable, electrolyte solution, replacement membrane caps, and batteries



DO 600 Meter

Fast dissolved oxygen measurement with automatic pressure compensation

Durable waterproof and dustproof design with IP67 rating

▼ Even with no probes attached and the battery compartment open

Single or multipoint calibration

▼ Fast trouble-free calibration in air

Large backlit graphic display

▼ Multi-line display with electrode status indicator, calibration data, and more

User-settable "calibration due" alarm

▼ Out-of-date or unperformed calibrations are now things of the past!

Built-in real-time clock

▼ Time-and-date stamping meets Good Laboratory Practice (GLP) standards

Advanced data management

▼ Store up to 500 data sets and download via Infrared IrDA wireless interface

Set point alarms

▼ Audible warning when readings are outside set points limit

No meter warm-up required

▼ Galvanic probe design lets you take measurements immediately without the typical 15-minute to 4-hour wait!

Password protection

▼ Security for calibration and setup menus



Left: DO 600 meter

Above: Complete kit available; includes meter, solutions, rubber boot, and carrying case.



Right: DO probes available with up to 100-ft cable.

Specifications



Mode	mg/L (ppm)	% Saturation	Temperature
Range	0.00 to 90.00 mg/L (ppm)	0.0 to 600.0%	0.0 to 50.0°C (32.0 to 122.0°F)
Resolution	0.01 mg/L (ppm)	0.1%	0.1°C (0.1°F)
Accuracy	±0.2% mg/L	±2% full-scale	±0.3°C (±0.3°F)

Salinity correction

Range: 0.0 to 50.0 ppt
Resolution: 0.1 ppt
Method: key in manually and automatic

Barometric pressure correction

Range: 450 to 825 mm Hg, 59.9 to 109.9 kPa
Resolution: 1 mm Hg, 0.1 kPa
Method: automatic correction

Probe: galvanic

Memory: up to 500 sets with GLP date and time

Output: infrared, IrDA

Real-time clock: time-and-date stamp on calibration and stored data

Temperature compensation: automatic or manual (selectable) from 0 to 50°C

Ambient operating temperature: 0 to 50°C (32 to 122°F)

Power: four 1.5 V AA batteries (included) or optional universal AC adapter, up to 500 hours continuous use

Dimensions

Meter: 7.25"L x 3.25"W x 2.25"H
Boxed: 9.2"L x 9.2"W x 2.75"H (23 x 23 x 7 cm)

Weight

Meter: 1.0 lb (0.45 kg); Boxed: 2.0 lb (0.9 kg)

Ordering Information

Catalog number	Description	Included
WD-35441-02	DO 600 meter only	Meter and batteries
WD-35441-00	DO 600 meter	Meter, probe 35640-50 with 10-ft cable, electrolyte solution, replacement membrane caps, and batteries
WD-35441-70	DO 600 meter kit	Meter, probe 35640-50 with 10-ft cable, electrolyte solution, rubber boot, replacement membrane caps, batteries, and hard carrying case

WD-35640-50 Dissolved oxygen probe, 10-ft cable

WD-35418-83 Optional adapter, 110/220 VAC

Multiparameter models available. See pages 56–59.

DO Probes and Accessories

Probes

Oakton® probes use galvanic technology to provide rapid results, without any warm-up requirements.

Probes for Acorn® DO 6 meter

Includes 50 mL of electrolyte solution and one replacement membrane cap. Probe dimensions: 5"L x 0.5" dia (11.5 cm L x 1.2 cm dia)



Catalog number	Description
WD-35642-50	Replacement DO probe with 3-ft cable
WD-35642-52	DO probe with 10-ft cable
WD-35642-54	DO probe with 30-ft cable

Probes for DO 110, DO 300, and DO 600 meters

Includes 50 mL of electrolyte solution and two replacement membrane caps. Probe dimensions: 6.8"L x 1.3" dia (17.3 cm L x 3.2 cm dia)

Catalog number	Description
WD-35640-50	Replacement DO probe with 10-ft cable
WD-35640-52	DO probe with 25-ft cable
WD-35640-54	DO probe with 50-ft cable
WD-35640-56	DO probe with 100-ft cable

Probe Maintenance

Catalog number	Description
Membrane assembly for Acorn® DO 6 meter	
WD-35642-55	Replacement membrane assembly consists of a preassembled membrane and cap. Simply screw replacement membrane assembly onto the probe you already have. Includes 50 mL of electrolyte solution.
Membrane assembly for DO 110, DO 300, and DO 600 meters	
WD-35640-80	Maintenance kit. Includes two complete membrane cap assemblies and 50 mL of fill solution.
WD-35640-72	Replacement membrane assembly consists of a preassembled membrane, membrane lock, O-ring, and cap. Simply screw replacement membrane assembly onto your probe.
WD-35640-79	Membrane installation tool lets you remove and replace membrane in the lab or field
WD-35640-74	Replacement HDPE membranes. Pack of 5
WD-35640-75	Replacement HDPE membranes. Pack of 25



Easy-to-use replacement membrane assembly—simply fill with electrolyte solution and screw onto probe.

Solutions

Ensure accurate readings by using Oakton solutions with your DO meter. Zero oxygen solution lets you calibrate for accurate low-end readings. Replacement electrolyte should be used whenever you replace the membrane or membrane cap.



00653-00

Catalog number	Description
WD-00653-00	Zero oxygen calibration solution, 500 mL
WD-35640-71	Replacement electrolyte solution, premixed 500 mL
WD-35640-70	Replacement electrolyte powder, 58.5 g. Mix your own electrolyte solution—makes 400 mL. Has longer shelf life in unmixed form.

DO Meter Kit

for DO 110, DO 300, and DO 600 meters

Bring everything you need for accurate DO measurement with you when you work in the field. Includes 50 mL of electrolyte solution, two replacement membrane caps, three rinse bottles, and hard carrying case with space for your meter and probe. (Meter not included.)

Catalog number	Description
WD-35640-60	DO meter kit (meter not included)



NOVA-TECH
INTERNATIONAL

800 Rockmead Dr Ste 102 • Houston, TX 77339-2112
Tel: (281) 359-8538 • Toll Free Tel: (866) 433-6682
Fax: (281) 359-0084 • Toll Free Fax: (866) 433-6684
sales@novatech-usa.com • www.novatech-usa.com