



# OAKION®

## WATERPROOF DO 450 AND PH/DO 450 METERS

### NO MORE WASTING TIME OR MONEY!



- Reduce maintenance and costs with affordable optical RDO technology
- Durable waterproof and dustproof design with IP67 rating
- See more data at a glance—view measurement with temperature and calibration data on large, backlit custom display
- Get more accurate readings—automatic or manual temperature compensation eliminates temperature effects on readings
- Selectable °C or °F to best fit your application
- Convenient hold, ready, low-battery indicator, and automatic shutoff functions
- Store up to 500 data sets; easy USB or RS-232 output with optional data cables
- Built-in real-time clock stamps stored data and calibration data with time and date for GLP compliance
- Keep hands free with built-in stand and wall mount
- 500 hours battery life or use optional universal power adapter

Keep hands free with built-in stand—ideal for benchtop or long-term use



**FREE TECHNICAL APPLICATIONS ASSISTANCE!**

## In the US

625 E. Bunker Court  
Vernon Hills, IL 60061  
Call toll-free 800-323-4340  
Phone: 847-549-7600  
Fax: 847-247-2929  
[www.coleparmer.com](http://www.coleparmer.com)

## In Canada

Call toll-free 800-363-5900  
Phone: 514-355-6100  
Fax: 514-355-7119  
[www.coleparmer.ca](http://www.coleparmer.ca)

## In the United Kingdom

Free phone: 0500-345-300  
Call: +44-20-8574-7556  
Fax: 020-8574-7543  
[www.coleparmer.co.uk](http://www.coleparmer.co.uk)

## In India

Phone: 91-22-6716-2222  
Fax: 91-22-6716-2211  
[www.coleparmer.in](http://www.coleparmer.in)

## International customers

Call 847-549-7600 to reach our International Sales Department or contact your local dealer.

## DO METER ALSO FEATURES:

- RDO, rugged optical dissolved oxygen technology
- Eliminate costly, tiresome membranes and solution
- Manual barometric pressure and salinity corrections
- Annual sensor cap replacement
- Meter includes batteries; meter with probe adds RDO probe 35640-53 and sensor cap; kit further adds RDO weight, calibration tube, and hard carrying case



## pH/DO METER ALSO FEATURES:

- Six-point calibration—choose USA, NIST, DIN, or custom buffer sets
- Auto buffer calibration which automatically identifies the correct pH buffer for rapid calibration
- mV offset for calibration to ORP standards, zeroing mV value, and pH diagnostics
- Compatible with pH and ISE electrodes having a BNC connector
- Meter includes batteries; meter with probes adds RDO probe 35640-53, pH probe 35808-71, and sensor cap; kit further adds RDO weight, calibration tube, calibration solutions, and hard carrying case



Description	DO 450 meter	DO 450 meter with probe	DO 450 meter kit	pH/DO 450 meter	pH/DO 450 meter with probes	pH/DO 450 meter kit
Catalog number	MK-35640-32	MK-35640-30	MK-35640-90	MK-35632-32	MK-35632-30	MK-35632-80
Precalibrated catalog number	MK-35640-34	MK-35640-31	MK-35640-91	MK-35632-34	MK-35632-31	MK-35632-81
Range	Dissolved oxygen	0 to 20 mg/L (ppm); 0 to 200%		0 to 20 mg/L (ppm); 0 to 200%		
	pH	—		-2.00 to 16.00 pH		
	mV	—		±2000 mV		
	Temperature	-17.0 to 230.0°F (-10.0 to 110.0°C)		-17.0 to 230.0°F (-10.0 to 110.0°C)		
Resolution	Dissolved oxygen	0.1 mg/L (ppm); 0.10%		0.1 mg/L (ppm); 0.10%		
	pH	—		0.01 pH		
	mV	—		0.1 mV (±999.9 mV); 1 mV (beyond)		
	Temperature	0.1°F/°C		0.1°F/°C		
Accuracy	Dissolved oxygen	±2%		±2%		
	pH	—		±0.01 pH		
	mV	—		±0.2 mV ±2 LSD or ±0.5% of reading, whichever is greater		
	Temperature	±0.9°F (±0.5°C)		±0.9°F (±0.5°C)		
Calibration	Dissolved oxygen	Zero and saturation		Zero and saturation		
	pH	—		Up to six points: USA, NIST, DIN, or custom		
	mV	—		±200 mV		
	Temperature	±5.0° offset		±5.0° offset		
Temperature compensation	Automatic or manual from -10 to 110°C					
Output	USB or RS-232					
Data logging	Stores up to 500 data sets					
Power	Two AA batteries (included) or optional universal power adapter					

**MK-35640-51 Replacement RDO sensor cap**

**MK-35640-53 Replacement RDO probe**, 10-ft (3-m) cable

**MK-35640-55 RDO probe**, 20-ft (6-m) cable

**MK-35640-57 RDO probe**, 50-ft (15-m) cable

**MK-35640-59 RDO weight**, screw thread to attach to probe

**MK-35640-58 RDO calibration chamber**

**MK-35805-23 Replacement pH electrode**. Double-junction; epoxy body; 10 ft (3-m) BNC connector

**MK-35618-05 ATC probe**. Use with any standard pH electrode for temperature compensation

**MK-35608-51 Hard carrying case**

**MK-35630-53 Data cable** for USB connectivity

**MK-35420-01 Data cable** for RS-232 connectivity

**MK-35420-72 Optional power adapter**, 110/220 VAC

**MK-09376-01 Replacement batteries**, AA. Pack of 4