OAKTON®

conductivity and conductivity/TDS/°C
CON 100 and CON 200

Push-button, customizable operating parameters lets you tailor meter functions to your specific application!

Both meters feature:

Five-point calibration
meter recalls previous calibration data

Reads conductivity from 0 to 199.9 mS across five ranges

Selectable automatic or manual temperature compensation

Manual or auto-ranging for conductivity measurements; auto-ranging for TDS readings

Memory function
stores and recalls 16 readings with corresponding temperature

Selectable cell constant (K)
K=1.0 for general applications; K=0.1 for pure water; K=10 for concentrated solutions

Selectable temperature coefficient
adjustable from 0 to 10% per °C for accurate compensation of almost any solution

Hold function, Error messages, selectable auto-off

Includes conductivity cell (K=1.0) with 3-ft cable

CON 200 also features:

Easily switches from conductivity to TDS readings
features an adjustable conductivity-to-TDS factor from 0.4 to 1.0

RS-232/printer output
download data to a computer or printer—ideal for GLP or HACCP data recording needs

Free OAKTON PC Datalog Assist Software on a 3.5" disk
organizes data into format ready to import into most popular spreadsheet programs

ISO 9001 vendor CERTIFIED

2 year warranty
meter only

CE

Above: The CON 100 shown with conductivity cell.
Top right: Use a OAKTON printer with the CON 200 for hard copies of your readings.
Middle right: The CON 200 shown downloading readings into a computer.
Bottom right: Conductivity calibration kit contains all the components necessary for fast calibration and measurement in the field.

The OAKTON CON 100 and 200 meters let you customize operating parameters for your exact application! These meters offer high accuracy at an affordable price. Measure conductivity with the CON 100; measure both conductivity and TDS with the CON 200. The CON 200 also has RS-232/printer capabilities to output data to a computer or printer—ideal for GLP or HACCP data recording needs.

The advanced setup mode lets you check previous calibration data, activate Ready Indicator and Auto-off functions, select cell constant, select a conductivity-to-TDS conversion factor (CON 200 only), and more! Use built-in stand and optional AC adapter (order separately) for benchtop use. Probe cable wraps behind the meter for easy one-handed operation.

The conductivity calibration kit contains a variety of calibration standards in a hard carrying case that has space for your meter (order separately). See the back of this sheet for ordering information and complete specifications.

OAKTON® **...setting the standard, again and again™**

Bulletin CON B3R2

CON 100 and CON 200 Meters

• Applications •

General Applications: Monitor# dissolved solids or conductivity levels quickly and easily in lab, field and educational environments.

Industrial Applications: Use for testing pollution controls, water treatment, and testing for water hardness. Also useful for checking cooling towers, boiler water, font solutions in printing operations, brines, swimming pools, whirlpools and rinse tanks.

Agricultural Applications: Use in aquariums, fish farms, hydroponics, and fertilizer/chemical concentrations.

• Specifications •

Mode	Conductivity	TDS (CON 200 only)	Temperature
Ranges (Resolution)	0.00 to 19.99 µS (0.01 µS); 0.0 to 199.9 µS (0.1 µS); 0 to 1999 µS (1 µS); 0.00 to 19.99 mS (0.01 mS); 0.0-199.9 mS (0.1 mS)	0.00 to 9.99 ppm (0.01 ppm); 10.0 to 99.9 ppm (0.1 ppm); 100 to 999 ppm (1 ppm); 1.00 to 9.99 ppt (0.01 ppt); 10.0-99.9 ppt (0.1 ppt) / 100-200ppt (1 ppt)	Epoxy body cells: 0 to 80°C (0.1°C) Glass body cells: 0 to 100°C (0.1°C)
Accuracy	±1% full scale	±1% full scale	±0.5°C
Calibration	up to five points (one point per range)	up to five points (one point per range)	offset 0.1°C increments

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

Operating temperature: 0 to 50°C

Cell constant (K): 1.0, 0.1 or 10 selectable

Temperature coefficient: adjustable from 0.00 to 10.00% per °C

Memory: Stores up to 16 sets

Power: 4 x 1.5 V AAA batteries > 60 hours continuous use (included); 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)

Weight: Meter: 1 lb (0.5 kg); Boxed: 2 lbs (0.9 g)

CON 200 meter only:

Conductivity-to-TDS factor: adjustable from 0.4 to 1.0

RS-232: 9 pin female, select baud rates 2.4, 4.8, 9.6 and 19.2 Kbps, stop bit, parity

Specifications for RS-232 output computer requirements: 386 and above (or compatible) with disk drive (1.44 MB). DOS 3.0 and above, RS-232 serial port, 430K RAM. Baud rate: 2.4, 4.8, 9.6 and 19.2 kbps selectable. Stop bit: 1 or 2 selectable. Parity: odd (1); even (2); or none (0) selectable. Meter's RS-232 Output Connector: 9 pin female.

• Ordering Information •

CON 100 and CON 200 Meters

All meters include conductivity cell WD-35607-50 (K=1.0), one probe holder, operating instructions and batteries. Shipping weight 2.0 lb (0.9 kg). CON 200 includes PC Datalog Assist Software.

WD-35607-10 CON 100 meter

WD-35607-20 CON 200 meter

Conductivity Cells

Cat. No.	Cell Constant	Body	

Conductivity cells. 100 mm L x 12 mm dia; 3-ft (0.9 m) cable. Two-band platinum sensor. Shpg wt 0.4 lb (0.2 kg).

Cat. No.	Cell Constant	Body
WD-35607-50	1.0	Epoxy
WD-35607-55	0.1	Epoxy
WD-35607-51	10	Epoxy
WD-35607-52	1.0	Glass
WD-35607-56	0.1	Glass
WD-35607-53	10	Glass

WD-35607-57 Conductivity cell, stainless steel body and sensor (K = 1.0). Removable guard for easy cleaning

WD-35607-54 Flow-through conductivity cell, glass body/ platinum sensor (K = 1.0). For continuous in-line measurement for flows up to 1 gal/min 100 mm L x 22 mm dia with 10-ft cable. Shpg wt 0.4 lb (0.2 kg)

Accessories

WD-35615-75 Portable meter carrying case. Protects meter while still letting you take measurements—case's top and side openings let probe and probe connections remain accessible. Shpg wt 1 lb (0.5 kg)

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

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

WD-09376-00 Replacement batteries, 1.5 V AAA. Pack of 12

WD-35607-69 Calibration kit contains four each of TDS "Singles" calibration solution pouches 447 µS, 1413 µS, 2764 µS, and 15.0 mS and four rinse water pouches, all in a hard plastic carrying case with room for your meter. Dimensions:11.5"L x 14"W x 3"H. Shpg wt 1.5 lbs (0.7 kg)

Calibration Solutions

Catalog number	Calibration solution type	Conductivity-to-TDS conversion factors		
		ppm KCl	ppm NaCl	ppm 442

Calibration solution pouches. box of 20. Each pouch contains 20 ml of premixed calibration solution. Since the pouches are individually sealed, the solution is guaranteed to be fresh and contaminant free every time. Accuracy ±1% at 25°C. Shpg wt 1 lb (0.5 kg)

Catalog number	Calibration solution type	ppm KCl	ppm NaCl	ppm 442
WD-35653-09	10 µS	4.7	4.8	7.0
WD-35653-10	447 µS	225.6	215.5	300.0
WD-35653-11	1413 µS	744.7	702.1	1000
WD-35653-12	2764 µS	1382	1414.8	2062.7
WD-35653-13	15,000 µS	8759	8532	13,455

Calibration solution bottles. 1 pint of premixed calibration solution in recyclable-PE bottle. Accuracy ±1% at 25°C. Shpg wt 1.1 lbs (0.5 kg).

Catalog number	Calibration solution type	ppm KCl	ppm NaCl	ppm 442
WD-00653-23	23 µS	11.6	10.7	14.74
WD-00653-16	84 µS	40.38	38.04	50.50
WD-00653-47	447 µS	225.6	215.5	300.0
WD-00653-18	1413 µS	744.7	702.1	1000
WD-00653-15	1500 µS	757.1	737.1	1050
WD-00653-27	2070 µS	1045	1041	1500
WD-00653-20	2764 µS	1382	1414.8	2062.7
WD-00653-89	8974 µS	5101	4487	7608
WD-00606-10	12,880 µS	7447	7230	11,367
WD-00653-50	15,000 µS	8759	8532	13,455
WD-00653-32	80 mS	52,168	48,384	79,688

RS-232 Computer/Printer Accessories

(for the CON 200 only)

WD-35622-00 Portable printer, 110 VAC, rechargeable, Shpg wt. 2 lbs (0.9 kg)

WD-35622-05 Portable printer, 220 VAC, rechargeable, Shpg wt. 2 lbs (0.9 kg)

WD-35615-09 Computer cable, 9-pin male

WD-35622-59 Printer cable, 25-pin

• ORDER FROM •