

TDSTestr®, ECTestr™, and SaltTestr™ Selection Guide

Get Better Accuracy. Oakton Instruments offers the only TDS and conductivity Testrs with ±1% full-scale accuracy. This is the best accuracy available on any pocket-sized Total Dissolved Solids or Conductivity meter. This can make a tangible difference for your application.

A Good Value. You also want a good value when it comes to pocket-sized instruments. Our drive for quality and durability for our TDSTestrs and ECTestr is what inspires us to do the extra things that may not even be readily apparent. From our use of custom thermoplastic housing materials that offer superior chemical and temperature durability, to our self-diagnostic error messages to help you immediately troubleshoot calibrations, batteries and sensors. Or, our application-specific micro-processors that deliver superior instrument reliability. All of these things combine to give you a superior product that delivers long-term value.



Lots of Options. Oakton Instruments also gives you options offered by no one else. We offer pocket-sized TDS and EC Testrs that measure across many ranges. We also offer a series of testers that include built-in sample cup sensors, and selectable °C/°F temperature readout, a specially designed tester for sodium chloride solutions, and a series of traditional “dip and read” meters.

More for Your Money. Better accuracy and a higher-quality product featuring more options. You get it all with the Oakton TDSTestrs, ECTestr, and SaltTestr.

Use this chart to find the best Testr for your application

Model Catalog number	Range	Resolution	Accuracy	Calibration	Waterproof housing	Temperature readout	Replaceable sensor	Adjustable TDS factor
TDSTestr 11 Series (see page 34)								
TDSTestr 11 dual-range WD-35662-10	0 to 1999 ppm; 0 to 10.00 ppt	1 ppm; 0.01 ppt	±1% full-scale	Three-point, manual	Yes	°C/°F	Yes	Yes
TDSTestr 11+ multirange WD-35662-15	0 to 199.9 ppm, 0 to 1999 ppm; 0 to 10.00 ppt	0.1 ppm, 1 ppm; 0.01 ppt	±1% full-scale	Two-point, manual	Yes	°C/°F	Yes	Yes
ECTestr 11 Series (see page 35)								
ECTestr 11 dual-range WD-35662-30	0 to 1990 µS; 0 to 19.90 mS	10 µS; 0.10 mS	±1% full-scale	Two-point, manual or auto	Yes	°C/°F	Yes	—
ECTestr 11+ multirange WD-35662-35	0 to 199.9 µS, 0 to 1999 µS; 0 to 19.99 mS	0.1 µS, 1 µS; 0.01 mS	±1% full-scale	Two-point, manual or auto	Yes	°C/°F	Yes	—
SaltTestr 11 (see page 36)								
SaltTestr 11 WD-35662-52	0 to 10.00 ppt	0.01 ppt	±1% full-scale up to 7.00 ppt, ±3% full-scale above 7.00 ppt	One-point, push-button	Yes	°C/°F	Yes	—

TDSTestr® 11 Series

Now with multirange capability—pure water to concentrated solutions with one meter

New

Large, easy-to-read display

- ▼ Two-line display—units, measurement status, and battery life indicators

Replaceable electrodes

- ▼ Reuse the meter body to save money

Temperature readout

- ▼ Simultaneous display in °C or °F

Full reading displayed

- ▼ No need to multiply the readout to obtain actual test values

Adjustable TDS factor

- ▼ 0.4 to 1.0 gives better accuracy

Push-button calibration

- ▼ Calibrate your tester more precisely than trimpot adjustment—no screwdrivers necessary

Hold function; Auto shut-off

Waterproof, dustproof housing

- ▼ Meets IP67 ratings—plus, it floats!

Automatic temperature compensation (ATC)

- ▼ Gives you accurate measurements even with fluctuating temperatures

TDSTestr 11+ features:

- ▼ Operate as either cup-style or dip-style tester for greater flexibility



Above top: Replaceable sensor saves you money

Above bottom: Calibration buttons tucked away in battery compartment to avoid accidental recalibration



Above top, bottom: TDSTestr 11+ operates as either a dip-style or cup-style instrument for small samples or holding under running water

Applications

TDSTestr 11

Low range: Measure TDS in natural water. Verify reverse osmosis systems and tap water quality. Check nutrient solution concentration for hydroponics.

High range: For measuring TDS in salt water, wastewater, cooling tower water, and boiler condensate. Check nutrient solution concentration in hydroponics applications. Measure salinity for ponds and recirculating systems. Check saline and chemical levels in pools and spas.

TDSTestr 11+

Ultra-low range: ideal for measuring TDS or conductivity (µS) in distilled water, natural water, drinking water and reverse osmosis systems.

Low range: Use for measuring TDS or conductivity (µS) in natural water. Verify reverse osmosis system operation and tapwater quality. Check nutrient solution concentration in hydroponics applications.

High range: Use for measuring TDS or conductivity (mS) in salt water, wastewater, cooling tower water, and boiler condensate. Check nutrient solution concentration in hydroponics applications. Measure salinity in ponds and recirculating systems. Check saline and chemical levels in pools and spas.

Specifications

Mode	TDSTestr 11 dual-range	TDSTestr 11+ multirange
Range	0 to 2000 ppm; 0 to 10.00 ppt	0 to 200 ppm, 0 to 2000 ppm; 0 to 10.00 ppt
Resolution	1 ppm; 0.01 ppt	0.1 ppm, 1 ppm; 0.01 ppt
Accuracy	±1% full-scale	±1% full-scale
Calibration standard range	20.0 to 199.9 ppm, 200 to 1999 ppm; 2.0 to 10.00 ppt	300 to 1990 ppm; 3 to 10.00 ppt
Calibration	3-point, manual	2-point, manual

Temperature display: 0 to 50°C (32 to 122°F), 0.1°C resolution, ±0.5°C accuracy

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

Temperature compensation: automatic (ATC) from 0 to 50°C (32 to 122°F)

ATC coefficient: 2% per °C, 1.11% per °F, 25°C reference temperature

Wetted materials: 316 stainless steel (electrodes) and HDPE/Valox® housing

Power and battery life: four 1.5 V alkaline batteries Eveready A76BP (included), 100 hrs continuous use (approx 600 tests per battery pack). Alternate replacement model Eveready 357BP silver oxide, 140 hrs continuous use.

Dimensions

Unit only: 6.5" L x 1.5" dia (165 x 38 mm)
Boxed: 7.25" x 2.75" x 1.87" (184 x 70 x 48 mm)

Weight

Unit only: 3.25 oz (90 g); Boxed: 6.0 oz (170 g)

Ordering Information

Catalog number	Description	Includes
WD-35662-10	TDSTestr 11 dual-range	Protective plastic storage case, lanyard, and batteries
WD-35662-15	TDSTestr 11+ multirange	

Accessories

WD-35661-17 Replacement electrode for TDSTestr 11

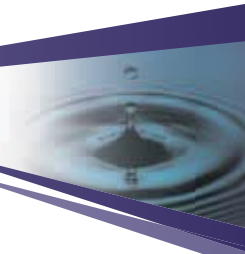
WD-35661-08 Replacement electrode for TDSTestr 11+

WD-35624-45 Vinyl carrying case with belt loop; holds one tester and solution pouches

WD-09377-16 Replacement batteries, 1.5 V. Pack of 6

WD-35661-70 Deluxe calibration kit includes two each calibration pouches (447 µS, 1413 µS, 2764 µS, 15,000 µS, and rinse water), sample jar, and foam-lined hard plastic carrying case. (Tester not included)

ISO9001:2000 CERTIFIED SUPPLIER CE 1 year warranty



ECTests™ 11 Series

Auto-ranging for maximum resolution

New

Large, easy-to-read display

- ▼ Two-line display—units, measurement status, and battery life indicators

±1% full-scale accuracy

- ▼ The best in its class!

Waterproof, dustproof housing

- ▼ Meets IP67 ratings, plus—it floats!

Replaceable electrode

- ▼ Reuse same meter body over and over

Push-button calibration

- ▼ Calibrate more precisely than trimpot adjustment—no screwdrivers needed

Hold function

- ▼ Freezes reading until you can record it

Auto shut-off

- ▼ Saves your batteries

Full reading displayed

- ▼ No need to multiply the readout to obtain actual test values

Temperature readout

- ▼ Dual-display for readings at a glance

Automatic temperature compensation (ATC)

- ▼ Gives you accurate readings even with fluctuating temperatures

ECTester 11+ features:

- ▼ Operate as either cup-style or dip-style tester for greater flexibility

Applications

ECTestr 11

Low range: Use for measuring conductivity (µS) in natural water. Verify reverse osmosis system operation and tap water quality. Check nutrient solution concentration in hydroponics applications.

High range: For measuring conductivity (µS) in salt water, wastewater, cooling tower water, and boiler condensate. Check nutrient solution concentration in hydroponics applications. Measure salinity for ponds, recirculating systems. Check saline, chemical levels in pools and spas.

ECTestr 11+

Ultra-low range: Ideal for measuring TDS or conductivity (µS) in distilled water, natural water, drinking water, and reverse osmosis systems.

Low range: Use for measuring TDS or conductivity (µS) in natural water. Verify reverse osmosis system operation and tap water quality. Check nutrient solution concentration in hydroponics applications.

High range: Use for measuring TDS or conductivity (mS) in salt water, wastewater, cooling tower water, and boiler condensate. Check nutrient solution concentration in hydroponics applications. Measure salinity in ponds and recirculating systems. Check saline and chemical levels in pools and spas.



Above: Convenient soft vinyl belt-loop carrying case 35624-45 keeps tester handy



Above, top right: Calibration button tucked away in battery compartment to avoid accidental recalibration



Above, bottom right: Replaceable electrodes extend tester life and save you money

Right: Features cup-style sensor—draw or grab samples anywhere!



35662-30

35662-35

ISO9001:2000 CERTIFIED SUPPLIER CE 1 year warranty

Specifications

Mode	ECTestr 11 dual-range	ECTestr 11+ multirange
Range	0 to 2000 µS; 0 to 20.00 mS	0 to 200.0 µS, 0 to 2000 µS; 0 to 20.00 mS
Resolution	10 µS; 0.10 mS	0.1 µS, 1 µS; 0.01 mS
Accuracy	±1% full-scale	±1% full-scale
Calibration standard range	300 to 1990 µS; 3 to 19.90 mS	20.0 to 199.9 µS, 200 to 199.9 µS; 2.0 to 19.99 mS
Calibration	2-point, manual or auto (1413 µS; 12.88 mS)	3-point, manual or auto (84 µS, 1413 µS; 12.88 mS)

Temperature display: 0 to 50°C (32 to 122°F), 0.1°C resolution, ±0.5°C accuracy

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

Temperature compensation: automatic (ATC) from 0 to 50°C (32 to 122°F)

ATC coefficient temperature: 2% per °C, 25°C reference

Wetted materials: 316 stainless steel (electrodes) and Valox® housing

Power and battery life: four 1.5 V alkaline batteries Eveready A76 (included), 100 hrs continuous use (approx 600 tests per battery pack). Alternate replacement model LR44.

Dimensions

Unit only: 6.5" L x 1.5" dia (165 x 38 mm)
Boxed: 7.25" x 2.75" x 1.87" (184 x 70 x 48 mm)

Weight

Unit only: 3.25 oz (90 g); Boxed: 6.0 oz (170 g)

Ordering Information

Catalog number	Description	Includes
WD-35662-30	ECTestr 11 dual-range	Protective plastic storage case, lanyard, and batteries
WD-35662-35	ECTestr 11+ multirange	

Accessories

WD-35661-17 Replacement electrode for ECTestr 11

WD-35661-08 Replacement electrode for ECTestr 11+

WD-35624-45 Vinyl carrying case with belt loop; holds one tester and solution pouches

WD-09377-16 Replacement batteries, 1.5 V. Pack of 6

WD-35661-70 Deluxe calibration kit includes two each calibration pouches (447 µS, 1413 µS, 2764 µS, 15,000 µS, and rinse water), sample jar, and foam-lined hard plastic carrying case. (Tester not included)

SaltTestr™ 11

Non-linear curve programmed for best results in testing NaCl in water applications

New



35662-52



Soft vinyl belt-loop carrying case 35624-45 keeps tester handy



Calibration button tucked away in battery compartment to avoid accidental recalibration



Replaceable electrodes extend tester life and save you money

Factory calibrated against NaCl standards

▼ Ideal for testing salinity levels in pools

±1% full-scale accuracy

▼ The best in its class!

Waterproof, dustproof housing

▼ Meets IP67 ratings, plus—it floats!

Replaceable electrode

▼ Reuse same meter body over and over again

Push-button calibration

▼ Calibrate more precisely than trimpot adjustment—no screwdrivers necessary

Hold function

▼ Freezes reading until you can log it

Auto shut-off

▼ Saves your batteries

Temperature display

▼ Selectable for °F or °C

Full reading displayed

▼ No need to multiply the readout to obtain actual test values

Automatic temperature compensation (ATC)

▼ Gives you accurate measurements even in fluctuating temperatures

Applications

General: Ideal for aquariums, hobbyists (koi fish), aquaculture, fish farms, water and wastewater treatment, pools, and spas.

Specifications

Mode	SaltTestr 11
Range	0 to 10.00 ppt
Resolution	0.01 ppt
Accuracy	0.00 to 7.00 ppt: ±1% full-scale; above 7.00 ppt: ±3% full-scale
Calibration	One point push-button calibration (using keys inside battery compartment)
Calibration standard range	3 to 10.00 ppt*

*For best accuracy, calibrate to 4.4 ppt NaCl with standard 00653-89 (order on page 37).

Temperature display: 0 to 50°C (32 to 122°F), 0.1°C resolution, ±0.5°C accuracy

Operating temperature: 0 to 50°C; 32 to 122°F

Temperature compensation: automatic (ATC) from 0 to 50°C (32 to 122°F)

ATC coefficient: 2% per °C, 1.11% per °F, 25°C reference temperature

Wetted materials: 316 stainless steel (electrodes) and Valox® housing

Power and battery life: four 1.5 V alkaline batteries Eveready A76 (included), 150 hrs continuous use (approx 600 tests per battery pack). Alternate replacement model model LR44

Dimensions

Unit only: 6.5" L x 1.5" dia (165 x 38 mm)

Boxed: 7.25" x 2.75" x 1.87" (184 x 70 x 48 mm)

Weight

Unit only: 3.25 oz (90 g); Boxed: 6.0 oz (170 g)

ISO 9001:2000
CERTIFIED SUPPLIER

CE 1 year warranty

Ordering Information

Catalog number	Description	Includes
WD-35662-52	SaltTestr 11	Protective plastic storage case, lanyard, and batteries

Accessories

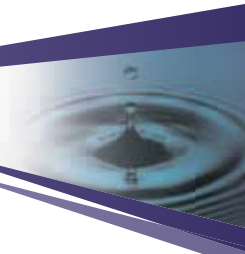
WD-35661-17 Replacement electrode for SaltTestr 11

WD-35624-45 Vinyl carrying case with belt loop; holds one tester and solution pouches

WD-35653-15 Salt standard pouches, 3000 ppm NaCl. Box of 20 pouches

WD-09377-16 Replacement batteries, 1.5 V. Pack of 6

WD-35661-70 Deluxe calibration kit includes two each calibration pouches (447 µS, 1413 µS, 2764 µS, 15,000 µS, and rinse water), sample jar, and foam-lined hard plastic carrying case. (Tester not included)



Custom Kits and Accessories

“Build Your Own” Testr® Kits

Create the kit that *you* want!

▼ Choose up to two waterproof Oakton® Testrs, then order the case and add the accessories you need

Mix or match TDS, EC, or Salt Testrs

▼ Fit the parameters and ranges of your applications

Just follow these 4 easy steps:

1. Order up to two waterproof Testrs and replacement sensor. For complete information, see page listed.

Catalog number	Model	Range	Page	Sensor Cat. no.
WD-35662-10	TDSTestr® 11	0 to 1990 ppm; 0 to 10.00 ppt	34	WD-35661-17
WD-35662-15	TDSTestr 11+	0 to 199.9 ppm, 0 to 1999 ppt; 0 to 10.00 pt	34	WD-35661-08
WD-35662-30	ECTestr® 11	0 to 1990 µS; 0 to 19.9 ms	35	WD-35661-17
WD-35662-35	ECTestr 11+	0 to 199.9 µS, 0 to 1999 µS; 0 to 19.99 ms	35	WD-35661-08
WD-35662-52	SaltTestr™ 11	0 to 10.00 ppt	36	WD-35661-17

2. Order a case.

WD-35653-71 Hard carrying case with foam inserts

3. Order calibration solutions below.

4. Order additional accessories.

Catalog number	Description
WD-06758-49	Sample bottle; HDPE, 30 mL
WD-35624-45	Soft carrying case, holds one tester and buffer pouches (order separately). Snap lock fastens case around your belt; Velcro® seal secures tester. 5.5”L x 2”W x 7.75”H (14 x 5 x 20 cm)
WD-09377-16	Replacement batteries, 1.5 V. Pack of 6

Pick your components...



and build a custom kit that contains everything *you* need for conductivity and salinity testing and calibration!



35625-45

pH and ORP custom kits are also available. See page 9.

Conductivity/TDS Calibration Solutions

▼ NIST-traceable materials

▼ ±1% accuracy at 25°C

These calibration solutions are standardized against NIST standards, premixed, and ready to use. Each economical one-pint bottle is labeled with the name and CAS number for all ingredients to conform with “Right-to-Know” requirements, and includes an MSDS.



Ordering Information

Catalog number	Conductivity value	TDS calibration values		
		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

Conductivity/TDS “Singles” Calibration Pouches

▼ Individually sealed and airtight

▼ NIST-traceable materials for high accuracy

▼ ±1% accuracy at 25°C

These “Singles” pouches are convenient, go-anywhere pouches that contain high-precision calibration standards—ideal for field calibrations. Pouches are labeled with equivalent TDS values for KCl, NaCl, and 442 and conductivity values at 25°C and CAS numbers for “Right-to-Know” requirements. Each box contains twenty 20-mL pouches.



Ordering Information

Catalog number	Conductivity value	TDS calibration values		
		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
WD-35653-15	56,501 µS	3240	3000	—

Calibration Solutions and Accessories

Conductivity/TDS Cells

Choose from three cell constants

All cells feature built-in temperature compensation. A 1.0 cell constant (K) is ideal for midrange conductivity measurements. For high conductivity measurements (near or above 20 mS) order a cell with K = 10.0; for low conductivity measurements (near or below 20 µS), order a cell with K = 0.1.



Ordering Information

Catalog number	Body/sensor material	Cell constant	Temperature range	Cable length	Probe style
Cells for use with CON 6, TDS 6, and SALT 6					
WD-35606-53	Ultem	K = 0.1	0 to 80°C	3 ft	C
WD-35606-55	Ultem	K = 1.0	0 to 80°C	3 ft	C
WD-35606-57	Ultem	K = 10	0 to 80°C	10 ft	C
Cells for use with CON 400, CON 410, TDS 400, CON 510, pH/CON 300, pH/CON 510, CON 11, and CON 110					
WD-35608-50	Ultem	K = 1.0	0 to 80°C	3 ft	C
WD-35608-57	Ultem	K = 1.0	0 to 80°C	10 ft	C
WD-35608-51	Epoxy	K = 10	0 to 80°C	3 ft	A
WD-35608-52	Glass	K = 1.0	0 to 100°C	3 ft	B
WD-35608-55	Epoxy	K = 0.1	0 to 80°C	3 ft	A
Cells for use with CON 600, CON 610, PC 650, CD 650, and PCD 650					
WD-35408-50	Epoxy	K = 0.1	0 to 80°C	3 ft	A
WD-35408-52	Ultem	K = 1.0	0 to 80°C	3 ft	C
WD-35408-57	Ultem	K = 1.0	0 to 80°C	10 ft	C
WD-35408-54	Epoxy	K = 10	0 to 80°C	3 ft	A
WD-35408-56	Epoxy, 4-cell	K = 0.3	0 to 80°C	3 ft	A
WD-35408-58	Epoxy	K = 0.01	0 to 80°C	3 ft	A

Conductivity/TDS Calibration Solutions

NIST-traceable; ±1% accuracy at 25°C

Conductivity/TDS calibration solutions are cross checked using different test methods, premixed, and ready to use. Each one-pint bottle is labeled with the name and CAS number for all ingredients to conform with "Right-to-Know" requirements.



Ordering Information

Catalog number	Conductivity value	Conductivity-to-TDS calibration values		
		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

Conductivity/TDS "Singles" Calibration Pouches

NIST traceable for high accuracy; ±1% accuracy at 25°C

Conductivity/TDS "Singles" are convenient, individually sealed pouches that contain high-precision calibration standards. Ideal for field calibration; just select the pouches you need and carry them to your test site for on-the-spot calibration and verification. Pouches are labeled with equivalent values for KCl, NaCl, and 442 and conductivity values at 25°C and CAS numbers for "Right-to-Know" requirements. Each box contains twenty 20-mL pouches.



Ordering Information

Catalog number	Conductivity value	Conductivity-to-TDS calibration values		
		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
WD-35653-15	5,650 µS	3240	3000	—

WD-35653-00 "Singles" deionized rinse water pouches, 20 pouches/box

Portable Printer

Use with the CON 110 portable meter (pg 42)

Create permanent records of your data from Oakton® meters with RS-232 output! This printer's compact size and rechargeable battery pack make it the perfect printer for both field use and crowded benchtop space. Pre-configured setup selections match the exact parameters of your meter. Accepts standard-sized adding machine rolls and printer ribbons.



Ordering Information

Catalog number	Description	Power
WD-35622-00	Portable printer	110 VAC
WD-35622-05	Portable printer	220 VAC

WD-35622-59 Printer cable, connects printer to your CON 110 meter (or other meters with RS-232 output)

WD-35622-60 Replacement ribbon cartridge

WD-35622-62 Replacement paper, one roll

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