

TDS  
GRÖCHER®  
EC  
GRÖCHER®

**Water-Resistant EC and TDS  
Meters**



These state-of-the-art meters have been engineered with a host of features to suit the aggressive environments commonly found in agricultural applications. To make these indicators ideally suited for growers, the housings and cable connections have been sealed against vapor and humidity. Problems due to low batteries and battery changes have been solved with a 12 VDC power supply included with the meter. You can simply hang the meter right above the sample to be monitored or take it with you for spot checking. Select **HI 983301N** for TDS measurements with the common 0.7 TDS conversion factor (4-4-2) or **HI 983301N/5** which uses a 0.5 conversion factor. Both the TDS and EC meters come with a probe specifically made for horticultural & hydroponics applications. The probe compensates for temperature variation automatically, is easy to clean and is very stable, needing little maintenance.

**Specifications**

	<b>HI 983301N</b>	<b>HI 983301N/5</b>	<b>HI 983302N</b>
Range	0 to 1990 ppm (mg/l)	0 to 1990 ppm (mg/l)	0.00 to 9.99 mS/cm
Resolution	10 ppm	10 ppm	0.01 mS/cm
Accuracy (@20°C/68°F)	±2% F.S.		
Calibration	manual at 1 point, through trimmer		
Temperature compensation	automatic, 5 to 50°C (41 to 122°F) with $\beta=2\%/^{\circ}\text{C}$		
TDS conversion factor	0.7	0.5	—
Probe	<b>HI 7634</b> (included)	<b>HI 7632</b> (included)	
Power supply	12 Vdc adapter (included)		
Environment	0 to 50°C (32 to 122°F); RH max 100%		
Dimensions	86 x 110 x 43 mm (3.4 x 4.3 x 1.7")		
Weight	215 g (7.6 oz.)		

**Accessories**

HI 7632	EC probe, 2 m (6.6') cable*		
HI 7632/2	EC probe with 2 m (6.6') cable and 1/2" thread for in-line installation*	HI 70032P	cable and 3/4" thread for in-line installation*
HI 7632/3	EC probe with 2 m (6.6') cable and 3/4" thread for in-line installation*	HI 70031P	1382 ppm calibration solution, 20 mL sachet, 25 pcs)
HI 7634	TDS probe, 2 m (6.6') cable*	HI 70442P	1413 $\mu\text{S}/\text{cm}$ calibration solution, 20 mL sachet, 25 pcs
HI 7634/2	TDS probe with 2 m (6.6') cable and 1/2" thread for in-line installation*	HI 710005	1500 ppm calibration solution, 20 mL sachet, 25 pcs
HI 7634/3	TDS probe with 2 m (6.6')	HI 710006	115 Vac/12 Vdc power adapter, US plug
			230 Vac/12 Vdc power adapter, European plug

\*Replaceable by technical personnel only.  
For a complete range of calibration, cleaning and maintenance solutions, see section F. For EC/TDS probes, see section U.

**Ordering Information**

**HI 983301N** is supplied with **HI 7634** probe, 12 Vdc adapter, 1500 ppm calibration solution (20 mL), calibration screwdriver and instructions.  
**HI 983301N/5** is supplied with **HI 7634** probe, 12 Vdc adapter, 1382 ppm calibration solution (20 mL), calibration screwdriver and instructions.  
**HI 983302N** is supplied with **HI 7632** probe, 12 Vdc adapter, 1413  $\mu\text{S}/\text{cm}$  calibration solution (20 mL), calibration screwdriver and instructions.