NUTRIENT CONDUCTIVITY METER

NEW

EC/TDS Nutrient Conductivity Meter 8314

- 24 bright blue LED indicators
- No calibration required
- Graphite EC probe with built-in temperature sensor
- Measures in CF, EC, PPM500, and PPM700
- Rugged design, doubles as a stirring stick
- Auto on/off function, button free operation
- Low battery indicator
- Detachable crown cap for easy cleaning
- Conductivity scales and operating instructions printed on the meter body

Auto Power Off | ATC Auto Temp. Compensation | IP67 | LED Display

Model	8314
Cond. Range (EC)	0.2~6.0 mS/cm 2~60 CF
Resolution	0.1 mS/cm (0.2 to 4.0 mS/cm), 0.25 mS/cm (4.0 to 6.0 mS/cm) 1 CF (2 to 40 CF), 2.5 CF (40 to 60 CF)
Accuracy	±4 % of reading ±1 resolution point
TDS Range	140~4200ppm (700 ppm scale) 100~3000ppm (500ppm scale)
Res.	700ppm scale: 70 ppm (140 to 2800 ppm), 175 ppm (2800 to 4200 ppm) 500ppm scale: 50 ppm (100 to 2000 ppm), 125 ppm (2000 to 3000 ppm)
Accuracy	±4 % of reading ±1 resolution point
Calibration	Factory Calibrated
Material	Graphite electrodes in ABS +PC body
IP rating	IP67 , floating
ATC	Automatic from 0.0~50.0°C (32~122°F)
LED	24pcs blue LEDs
Measuring temp.	0~50°C
Storage temp.	0~60°C
Storage RH%	Humidity < 90%
Sensor life time	>5 years (with good maintenance)
Battery type	3 x 1.5AA alkaline
Battery life	Around 3 years (10 measurements/day)
Dimension	453mm (L) * 29.9mm (Dia.) 17.83" (L)*1.18"(Dia.)
Weight	230g
Standard Package	Meter, wrist strap, battery, manual, color box

24 bright blue LED indicators & Low battery reminding

CF	EC		ppm 500 (TDS)	ppm 700 (EC x700)
2	0.2	●	100	140
4	0.4	●	200	280
6	0.6	●	300	420
8	0.8	●	400	560
10	1.0	●	500	700
12	1.2	●	600	840
14	1.4	●	700	980
16	1.6	●	800	1120
18	1.8	●	900	1260
20	2.0	●	1000	1400
22	2.2	●	1100	1540
24	2.4	●	1200	1680
26	2.6	●	1300	1820
28	2.8	●	1400	1960
30	3.0	●	1500	2100
32	3.2	●	1600	2240
34	3.4	●	1700	2380
36	3.6	●	1800	2520
38	3.8	●	1900	2660
40	4.0	●	2000	2800
45	4.5	●	2250	3150
50	5.0	●	2500	3500
55	5.5	●	2750	3850
60	6.0	●	3000	4200

Quick 2 steps

1. Install 3* AA batteries. Button free operation.
2. Rinse, Stir, Get reading.

Ordering Code

VZ8314AZ, EC/TDS Nutrient Conductivity Meter

Why Measure EC/TDS in Hydroponic Nutrient Solutions?

1.Ensure Optimal Nutrient Levels
EC/TDS directly reflects the concentration of dissolved nutrients. Maintaining the correct range ensures plants receive adequate but not excessive nutrients.

2.Prevent Underfeeding or Overfeeding
Too low EC can lead to nutrient deficiencies and poor growth.
Too high EC can cause nutrient burn or osmotic stress.

3.Support Consistent Plant Growth
Regular monitoring helps maintain a stable root-zone environment, critical for uniform plant development and high yields.

4.Compensate for Plant Uptake and Water Evaporation
As plants absorb nutrients and water evaporates, the solution concentration changes. EC readings help determine when to dilute or replenish nutrients.

5.Optimize Crop-Specific EC Targets
Different crops (e.g., lettuce, tomatoes, herbs) have unique optimal EC ranges for best growth and taste quality.

Lettuce：0.8~1.2 mS/cm

Strawberry: 1.0~1.8 mS/cm

Melon: 2.0~3.5 mS/cm

When to Measure EC/TDS?

1.Before adding nutrients – to check baseline water quality (some tap water has high EC).
2.After mixing nutrients – to confirm the correct concentration before feeding plants.
3.Daily or regularly during crop growth – to monitor changes due to plant uptake or evaporation.
4.After topping up with water – to ensure proper dilution and balance.
5.Before and after flushing – to verify salt buildup and ensure clean system reset.

After mixing nutrients
(1000L, IBC Tank)

Nutrient Film Technique
– NFT

Auto-Drip System