

C 215 - Test Fertilization Nutrients with One Meter



HI 83215 is a practical instrument made for the hydroponics and greenhouse industries to measure nutrients commonly present in fertilizer-enriched solutions. This photometer measures ammonia, phosphorus, nitrate and potassium in three distinct ranges of low, medium and high concentrations. This way accuracy is maximized for each nutrient and for every concentration. Thanks to the simplicity of the operations, you no longer need to send off your samples and then wait for the results to come back. Armed with HI 83215, you can test the presence and strength of nutrients right on the spot. This can translate itself into a substantial saving and improved yield over a period of time. The internal microprocessor provides high accuracy and simplifies operations to the degree that even non-technical operators can use the meter. In fact, the meter is supplied complete with all the necessary accessories. Just source the reagents needed from the table below and commence measurements. HI 83215 runs on batteries as well as the mains and comes complete with 9 volt batteries and a 12 Vdc adapter. Add to this the unit's light weight and you have a bench meter that is just at home in the field as in the horticulturist's lab.



Specifications

Light Source	3 tungsten lamps with narrow band interference filter 420/525/610 nm
Light Detector	4 Silicon Photocells
Power Supply	2 x 9V battery or 12 Vdc adapter
Auto-off	after 10 minutes of non-use
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions / Weight	230 x 165 x 70 mm / 640 g

Ordering Information

HI 83215 is supplied complete with 4 measuring cuvettes, batteries, 12 Vdc adapter and instructions. HI 83215K kit includes accessories for HI 83215: rugged carrying case, 100 mL and 170 mL beaker, 60 mL and 5 mL syringes, 1 filter-holder and 25 filters, 100 mL cylinder, demineralizer bottle, 2 pipettes, 1.5 mL spoon and active carbon for 50 tests.

Test	Range	Method	Reagents
Ammonia LR	0.0 to 10.0 mg/L	Nessler	HI 93715-01
Ammonia MR	0.0 to 50.0 mg/L	Nessler	HI 93715-01
Ammonia HR	0 to 100 mg/L	Nessler	HI 93715-01
Nitrate LR	0.0 to 30.0 mg/L	Cadmium Reduction	HI 93728-01
Nitrate MR	0 to 150 mg/L	Cadmium Reduction	HI 93728-01
Nitrate HR	0 to 300 mg/L	Cadmium Reduction	HI 93728-01
Phosphorus LR	0.0 to 10.0 mg/L	Amino Acid	HI 93706-01
Phosphorus MR	0.0 to 50.0 mg/L	Amino Acid	HI 93706-01
Phosphorus HR	0 to 100 mg/L	Amino Acid	HI 93706-01
Potassium LR	0.0 to 20.0 mg/L	Turbidimetric	HI 93750-01
Potassium MR	10 to 100 mg/L	Turbidimetric	HI 93750-01
Potassium HR	20 to 200 mg/L	Turbidimetric	HI 93750-01

All reagents with -01 final code are for 100 tests.

For a comprehensive list of accessories and reagents, see sections U and V