

Nutrient Analysis Photometer for Greenhouses and Hydroponics



Nitrogen, phosphorus, and potassium (NPK) are often the first three factors considered when making recommendations to growers. Compared to the HI 83215, the HI 83225 provides control over three additional important growing factors: sulfur (most common as sulfates), calcium and magnesium.

HI 83225 is designed for the hydroponics and greenhouse industries to measure seven nutrients commonly present in fertilizer enriched solutions. It can measure fifteen different methods using specific liquid or powder reagents, and has four measuring channels for a wide range of tests.

The optical system of HI 83225 is based on special subminiature tungsten lamps and narrow-band interference filters to guarantee both high performance and reliable results.

HI 83225 has a powerful interactive user support that assists the user during the analysis process. A full tutorial is available in the Setup Menu, and the Help Menu provides assistance for every step in the measurement process. This meter can be connected to a PC via a USB cable, where the data can be managed with optional HI 92000 Windows® compatible software.

| TEST | RANGE | METHOD | REAGENTS |
|---------------|------------------------|-------------------|----------------|
| Ammonia HR | 0 to 100 mg/L (ppm) | Nessler | HI 93715-01 |
| Ammonia MR | 0.0 to 50.0 mg/L (ppm) | Nessler | HI 93715-01 |
| Ammonia LR | 0.0 to 10.0 mg/L (ppm) | Nessler | HI 93715-01 |
| Nitrate HR | 0 to 300 mg/L (ppm) | Cadmium Reduction | HI 93729-01 |
| Nitrate MR | 0 to 150 mg/L (ppm) | Cadmium Reduction | HI 93729-01 |
| Nitrate LR | 0.0 to 30.0 mg/L (ppm) | Cadmium Reduction | HI 93729-01 |
| Phosphorus HR | 0 to 100 mg/L (ppm) | Amino Acid | HI 93706-01 |
| Phosphorus MR | 0.0 to 50.0 mg/L (ppm) | Amino Acid | HI 93706-01 |
| Phosphorus LR | 0.0 to 10.0 mg/L (ppm) | Amino Acid | HI 93706-01 |
| Potassium HR | 20 to 200 mg/L (ppm) | Turbidimetric | HI 93750-01 |
| Potassium MR | 10 to 100 mg/L (ppm) | Turbidimetric | HI 93750-01 |
| Potassium LR | 0.0 to 20.0 mg/L (ppm) | Turbidimetric | HI 93750-01 |
| Calcium | 0 to 400 mg/L (ppm) | Oxalate | HI 937521-01** |
| Magnesium | 0 to 150 mg/L (ppm) | Calmagite | HI 937520-01** |
| Sulfate | 0 to 100 mg/L (ppm) | Turbidimetric | HI 93751-01 |

Reagents are available in liquid or powder form, and the amount of each reagent is precisely dosed to ensure maximum repeatability.
 † 15000 rated reagent vials, all reagent codes ending with -01 are for 100 tests. Reagent vials -02 with -03 for 300 tests.

* For Chloride, liquid reagents are available. ** Reagents for 50 tests (-02) and 250 tests (-03).

For a complete list of Reagents, see Reagents Section 18.

ADP
Application Designed Photometers

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methods

ORDERING INFORMATION

HI 83225-01 (115V) and HI 83225-02 (230V) are supplied with sample cuvettes and caps (4 ea.), sample preparation kit, cloth for wiping cuvettes (1), scissors, AC/DC power adapter and instruction manual.

HI 83225-100 kit includes 10 mL cuvettes and caps (4 ea.), 100 mL plastic beaker, 170 mL plastic beaker, 100 mL graduated cylinder, 60 mL syringe with screw rim, 5 mL syringe, funnel, filter discs (25), spoon, pipettes (2), carbon powder packets (50) and demineralizer bottle with filter cap for approximately 12 liters of deionized water.