## MACHEREY-NAGEL

# PF-3 Soil and $VISOCOLOR^{\mathbb{B}} \cdot NANOCOLOR^{\mathbb{B}}$



- Compact photometer with intuitive menu guidance
- Tough and water-proof according to IP 68
- Soil analysis right at the point of interest
- Determination of ammonium, potassium, nitrate, phosphate



#### PF-3 Soil and VISOCOLOR® · NANOCOLOR®

#### Soil analysis made easy

Monitoring and reliable analysis are corner stones in supporting and maintaining healthy, productive and biologically active soil. To effectively and efficiently plan all measures that affect the soil (fertilization, liming, etc.) it is crucial to determine the important soil parameters (nitrate, phosphate, potassium and ammonium). The PF-3 Soil in combination with the proven VISOCOLOR® ECO and NANOCOLOR® tests is ideally suited for mobile analysis of the soil quality right at the point of interest



#### PF-3 Soil benefits at a glance

#### Small and compact

- Handy and light weight
- Glass-fiber reinforced housing
- Water proof according to IP 68
- Shock-resistant optics

Ideal for all your analysis needs in the lab and right at the point of interest



#### Easy and convenient

- Fully developed menu structure using just 4 buttons
- Optional storage for just one 0-measurement
- Results in different units
- Open cuvette slot

Safe results and convenient operation



#### Smart and clever

- Runs on standard or rechargeable batteries
- Free of charge data export software
- Add new tests and parameters anytime
- Power supply and data transfer via USB port

Flexible use and easy data administration



#### Technical data compact photometer PF-3 Soil

Туре:	LED photometer with 3 interference filters
Wavelengths:	365 nm, 450 nm, 660 nm
Wavelength accuracy:	± 2 nm, bandwidth at half transmission 10-12 nm
Measuring modes:	Pre-programmed MN-tests
Cuvette holder:	Tubes 16 mm OD
Memory:	50 results
Display:	Backlit graphic display, 64 x 128 pix, all important data at a glance: result with unit, data, time
Operation:	Self-explanatory menu guidance, foil keypad, test selection via parameter lists
Power supply:	3 AA batteries, rechargeable batteries, USB interface; optional internal accu-pack
Housing:	Water proof, IP 68 certified
Dimensions:	170 x 95 x 68 mm

 $\mathsf{C}\mathsf{E}_{\mathsf{This}}$  device complies with the following directives: EMC Directive 2014-30-EU; LVD Directive 2014-35-EU

### PF-3 Soil and VISOCOLOR® · NANOCOLOR®

#### Test kit benefits at a glance



#### Reliable and accurate

- Highly accurate measurements due to photometric determination with PF-3 Soil
- Simple chemical-analytical methods
- Reaction principles based on internationally acknowledged regulations (DIN, EN, ISO)
- Low susceptibility to interferences assures reliable results

High measurement safety for reliable water analysis



#### VISOCOLOR® - Easy and comfortable

- Intuitive instructions with pictograms
- Color-coded reagent bottles with clear dosing instructions
- Fast-dissolving reagents save time
- Cost efficient refill packs available

Convenient handling without the need for time consuming training



#### NANOCOLOR® - Precise and versatile

- Ready-to-use reagents for easy and fast measurements
- One tube for both, reaction and measurement
- Contact with dangerous chemicals is avoided
- Ideal for routine analysis

Highest accuracy due to pre-dosed reagents



#### Fair and economical

- Individual combination of reagent bundles
- Competent customer service by highly educated and experienced professionals
- Free seminars and product information
- Fast replacement availability in case of repair

Consistently fair concept with impressive price-performance ratio

#### VISOCOLOR® and NANOCOLOR® tests running on the PF-3 Soil

:-4.0 mg/kg NH <sub>4</sub> -N -300 mg/kg K <sup>+</sup> 28 mg/kg NO <sub>3</sub> -N	5-08 5-32	50	931208
	5-32		
28 mg/kg NO <sub>3</sub> -N		60	931232
	5-41	110	931241
-500 mg/kg PO <sub>4</sub> -P	5-84	80	931284
easurement range	Test number	No. of tests	REF
8–4.60 mg/kg NH <sub>4</sub> -N	0-03	20	985003
–16.0 mg/kg NH <sub>4</sub> -N	0-04	20	985004
⊢80.0 mg/kg NH <sub>4</sub> -N	0-05	20	985005
-1000 mg/kg K <sup>+</sup>	0-45	20	985045
14 mg/kg NO <sub>3</sub> -N	0-64	20	985064
100 ma/ka PO₄-P	0-81	20	985081
4 .			
1-	3–4.60 mg/kg NH <sub>4</sub> -N -16.0 mg/kg NH <sub>4</sub> -N -80.0 mg/kg NH <sub>4</sub> -N 1000 mg/kg K <sup>+</sup>	3-4.60 mg/kg NH <sub>4</sub> -N 0-03 -16.0 mg/kg NH <sub>4</sub> -N 0-04 -80.0 mg/kg NH <sub>4</sub> -N 0-05 1000 mg/kg K <sup>+</sup> 0-45 4 mg/kg NO <sub>3</sub> -N 0-64	3-4.60 mg/kg NH <sub>4</sub> -N 0-03 20 -16.0 mg/kg NH <sub>4</sub> -N 0-04 20 -80.0 mg/kg NH <sub>4</sub> -N 0-05 20 1000 mg/kg K <sup>+</sup> 0-45 20 4 mg/kg NO <sub>3</sub> -N 0-64 20

<sup>\*</sup> These products contain harmful substances which must be specially labeled as hazardous. For detailled information please see MSDS.

#### VISOCOLOR® reagent cases with PF-3 Soil

To provide maximum flexibility, MACHEREY-NAGEL offers flexible case solutions for multiple applications. These mini-labs in rugged cases with premium foam inlays can be equipped in an individual and highly flexible way with different test kits. Catering to our customer needs we also offer a pre-packed reagent case including the PF-3 Soil, all important tests for a complete soil analysis and accessories.



#### Ordering Information

Description	REF
Compact photometer PF-3 Soil, in a cardboard box, incl. manual, batteries and certificate	919341
Compact photometer PF-3 Soil, in a case with foam inlay, incl. manual, batteries and certificate	934202
Reagent case with photometer PF-3 Soil, with VISOCOLOR® ECO reagents* nitrate, potassium, ammonium 3, phosphate	934210
Reagent case for soil analysis with photometer PF-3 Soil, incl. reagents and accessories for sample preparation*	934220

<sup>\*</sup> These products contain harmful substances which must be specially labeled as hazardous. For detailed information please see MSDS.

For more information please visit www.mn-net.com/PF-3.



www.mn-net.com

MACHEREY-NAGEL GmbH & Co. KG  $\cdot$  Neumann-Neander-Str. 6–8  $\cdot$  52355 Düren  $\cdot$  Germany

Distribútor pre SR: AZ CHROM s.r.o., Robotnícka 10, 831 03 Bratislava



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