FIELD ENVIRONMENTAL INSTRUMENTS, INC.

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ENVIRONMENTAL EQUIPMENT AND FIELD SUPPLIES

LaMotte SMART3 Colorimeter Specifications

The compact SMART3 Colorimeter is ideal for water analysis in the field or in the lab. Easy-to-use software allows the analyst to choose a test factor from over 75 preprogrammed calibrations for LaMotte reagent systems. The reacted sample is always scanned at the optimum wavelength which is automatically selected from the multiple LED optical system and the test result is presented on the large, backlit display.

The test result is displayed directly in units of concentration, as well as Absorbance and %T, in one of seven languages. The analyst also has the option of entering up to 25 additional calibrations for analysis with custom reagent systems. Test factors can be arranged in any of three sequences that can be modified at any time to meet changing testing needs. The data logger holds up to 500 time and date stamped data points. A USB connection allows an interface of the colorimeter with a computer for real-time data acquisition and data transfer. The meter logs up to 500 data points.

Features include:
- IP67 Waterproof
- Large graphical liquid crystal display
- Simple, menu-driven operation
- Alphabetical test selection
- Pre-programmed tests
- Lithium ion rechargeable battery or computer/wall adapter
- Data logger for 500 data points
- 25 User tests
- Backlit display
- Auto-off
- USB port
- European CE mark

Additional advancements include:
- Superior narrow band-width interference filters
- Super Twist Backlit LCD display for improved readability
- Optional software for data storage and manipulation

| Pittsburgh, PA | Kansas City, KS | Minneapolis, MN | Exton, PA | Atlanta, GA | Houston, TX |
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Specifications

Readout:	160 x 100 backlit LCD, 20 x 6 line graphical display
Wavelengths:	428 nm, 525 nm, 568 nm, 635 nm
Wavelength Accuracy:	±2% FS
Wavelength Bandwidth:	10 nm typical
Photometric Range:	-2 to +2 AU
Photometric Precision:	±0.001 AU at 1.0 AU
Photometric Accuracy:	±0.005 AU at 1.0 AU
Light Sources:	4 LEDs
Detectors:	4 silicon photodiodes with integrated interference filters
Modes:	Pre-programmed tests, absorbance, %T
Languages:	English, Spanish, French, Portuguese, Italian, Chinese, Japanese
Sample Chamber:	25 mm diameter flat bottom test tubes, 10 mm square cuvettes, 16 mm COD tubes
USB Port:	Mini B
Power:	Lithium ion rechargeable battery, 3.7v, 2.5 x .75 inches, 1.7 oz. or USB computer cable or wall adapter
Battery:	Charge Life: Approx. 380 tests with backlight on to 1000 tests with backlight off. (Singnal averaging disabled). Battery Life: Approx. 500 charges
Auto Shut-off:	Disabled, 5, 10, 50 minutes
Dimensions:	8.84 x 19.05 x 6.35 cm; 3.5 x 7.5 x 2.5 inches
Weight:	362 g; 13 ounces
Ship Dimensions:	29.2 x 27.9 x 11.43 cm; 11.5 x 11 x 4.5 inches
Ship Weight:	1.18 kg; 4 lbs.