

MiniDirect Photometer



Highlights

- Waterproof electronics
- Real-Time Clock and Date
- Memory for 16 data sets
- Illuminated Display
- Approx. 200 g weight
- Highest accuracy
- Calibration Mode

The MiniDirect is a small, lightweight, handy photometer system with the renowned Lovibond® quality. It uses Lovibond® reagents in the form of tablet reagents or powder packs. These maintain their stability over long periods and guarantee outstanding accuracy. The attractive design is characterised by its clear lines, its user-friendliness and ergonomics. Reading test results is child's play, thanks to the illuminated display on keypress. And because it is waterproof, the MiniDirect can be used outdoors in any circumstances.

N.I.S.T Traceability

The MiniDirect has a factory calibration, which is related to internal standards which are not N.I.S.T traceable. The instrument may be calibrated by the user in a "user calibration mode" with N.I.S.T traceable standards.

(N.I.S.T. = National Institute of Standards and Technology)

Single Parameter

Test	Code
Aluminium , with tablet reagents 0.05 - 0.3 mg/l Al	27 00 70
Ammonia , with tablet reagents 0.02 - 1.0 mg/l N	27 00 50
Chlorine , with tablet reagents 0.01 - 6.0 mg/l Cl	27 00 00
Chlorine , with powder reagents 0.01 - 2.0 mg/l Cl	27 00 05
Chlorine , with powder reagents 0.01 - 2.0 mg/l Cl (ø 24 mm glass vial) 0.1 - 8.0 mg/l Cl (ø 24 mm multy vial)	27 00 06
Chlorine dioxide , with tablet reagents 0.01 - 3.8 mg/l ClO ₂	27 01 30
Copper , with tablet reagents 0.05 - 5.0 mg/l Cu	27 01 10
Iron , with tablet reagents 0.02 - 1.0 mg/l Fe	27 00 80
Iron , with powder reagents 0.02 - 3.0 mg/l Fe	27 00 85
Manganese , with powder reagents 0.1 - 20 mg/l Mn	27 01 05
Phosphate , with tablet reagents 0.1 - 4.0 mg/l PO ₄	27 00 60

Multi Parameter

Test	Code
Chlorine, pH , with tablet reagents 0.01 - 6.0 mg/l Cl ; 6.5 - 8.4 pH	27 30 00
Chlorine, pH , with powder for chlorine 0.01 - 2.0 mg/l Cl ; 6.5 - 8.4 pH	27 30 05
Chlorine, pH, Cyanuric acid with tablet reagents 0.01 - 6.0 mg/l Cl ; 6.5 - 8.4 pH 2 - 160 mg/l Cyanuric acid	27 30 10

Technical data

Optics	temperature compensated LED and photo sensor amplifier
Power supply	9 V power pack battery providing 40 hours operation
Auto-off	automatic switch off
Display	backlit LCD (on keypress)
Storage	internal ring memory for 16 data sets
Additional feature	real time clock and date
Calibration	factory calibration and user calibration. Reset to factory calibration possible
Housing	water proof
Dimensions (L x W x H)	170 x 65 x 45 mm
Weight	approx. 200 g
Environmental conditions	temperature: 0 – 40°C rel. humidity: 30 – 90%, not condensing
CE	EN 50081-1 VDE 0839 part 81-1:1993-3 EN 50082-2 VDE 0839 part 82-2:1996-02



Delivery content

Each MiniDirect is delivered in a plastic case, including 9 V battery, 3 round vials with lids, reagents for 100 tests, spares, guarantee sheet, certificate and instruction manual.

➔ Please see pages 46 onwards for tests, ranges and reagents

Accessories

Item	Code
Set of 12 round vials with lid Height 48 mm, Ø 24 mm	19 76 20
Set of 12 multy vials with lid Height 48 mm, Ø 24 mm 10 mm path length	19 76 10
Adapter for round vial, ø 16 mm	19802220
Sealing rings for round vial, ø 24 mm (12 pc.)	19 76 26
Cleaning cloth for vials	19 76 35
Cleaning set for sample chamber	12 40 60
Measuring beaker, 100 ml	38 48 01
Plastic funnel with handle	47 10 07
Brush, 11 cm length	38 02 30
Plastic stirring rod, 13 cm length	36 41 00
Plastic stirring rod, 13 cm (pack of 10)	36 41 20
9 V-battery	19 50 01 2

Reference Standard Kits

The reference standards are designed to check the accuracy and the reliability of the results.

The shelf life of reference standards is two years from the date of production, provided that storage and use are in accordance with the instructions provided.

Kit Chlorine Tablet Test 0.2* and 1.0* mg/l	27 56 00
Kit Chlorine Tablet Test 0.5* and 2.0* mg/l	27 56 05
Kit Chlorine Powder Reagent Test (VARIO) 0.2* and 1.0* mg/l	27 56 01
Kit pH 7.45 pH	27 56 10

* Approximate figure, actual figure specified in Certificate of Analysis

