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Turbidity is measured according to ENISO7027 by nephelometric means (90° scattered light). The infrared light-source permits measurement of coloured and colour-free samples. The automatic measurement range detection facility (Autorange) enables direct turbidity measurement from 0.01 to 1100 NTUwith an accuracy of ± 2 % up to 500 NTUand ± 5 % thereafter.

A large graphic display, a choice of several dif erent languages and user-friendly operating instructions make the instrument extremely easyto use.

Software updates (for example: languages) can be downloaded free of charge.



Technical data

Principle	nephelometric (90° scattered light)
Light source	IR-LED(860 nm)
Keypad	acid and solvent resistant; membrane keypad
Auto – Of	automatic switch of
Display	Graphic-Display
Update	Software update via Internet
Clock	real time clock
Memory	1000 data sets
Sample vol.	approx. 12 ml
Range	0.01 – 1100 NTU(Auto range)
Resolution (NTU)	0.01 from 0.01 - 9.99 0.1 NTUfrom 10.0 - 99.9 1 NTUfrom 100 - 1100
Accuracy (NTU)	± 2 % of readingor 0.01 (0 - 500) ± 5 % of reading (500 - 1100), whichever is greater
Ambient conditions	temperature: 5-40 °C at 30-90 % relative humidity (non condensing)
Interface	RS232for printer and PC connection
Power supply	7 NiCd rechargeable batteries (TypeAA) ; mains adapter (Input: 100-230V) ; and lithium battery for data storage
Weight (instrument)	approx. 1000 g including batteries and power pack
Dimensions	265 x 195 x 70 mm (L x W x H)
CE-Conformit	v

CE-Conformity

Accessories

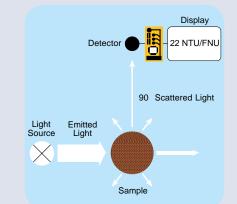
Set of 12 sample vials with black lid, height 55 mm, ø 24 mm	19 76 55
Cleaning cloth for vials	19 76 35
Rubber seal cap, black for interface and power plug-in	19 80 17 16
Sample chamber lid, black	19 80 11 19
Mains charger, 100-240 V, 50-60 Hz, with international adapters	19 30 10
Connection cable connection to PC, serial 9-pins	19 81 98
AA Battery Mignon, 1100 mAh (7 pc.)	19 50 02 0
Lithium battery	19 50 01 7
Formazin Stock Solution (4000 NTU), 125 ml	19 41 41
Formazin Stock Solution (4000 NTU), 250 ml	19 41 42
Set Turbidity Standards T-CAL (<0.1, 20, 200, 800 NTU)	19 41 50
Paper Printer	198077

Paper Printer 19807 (Adapter and RS232-Cable inlcuded)

Delivery Content

- Instrument in plastic case
- 1 set of turbidity standardsT-CAL
- 7 rechargeable batteries(AA)
- 1 lithium battery
- Mainscharger, 100-240 V
- PCconnection cable
- 4 cells(ø 24 mm) with lids
- Warranty information
- Certificate of Compliance
- Instruction Manual
 Order code: 19 40 00-B
 Order code: 19 40 00
 (without lithium battery)





Turbidity measurement

In pool water, turbidity is an indication for the ef ectiveness of the f lter systemand cleaning agents. In drinking water it indicates the possible bacterial growth. In sewage treatment plants the turbidity is an indicator of quality in the cleaning procedures. In industries, turbidity is a quality criterion for products.

The cause of turbidity is usually tiny small particles or droplets that do not dissolve in the surrounding liquids.

The light is distracted by these substances and is partly absorbed and scattered. This scattered light is measured for turbidity levels.

The measurement is made at a 90° angle with infrared or white light.

Formazine solutions are used for calibration.

T-CalFormazine PrimaryStandardsare stable for 12 monthsdue to a specialstabilisation and help to calibrate our turbidimeterseaaily and safety.





Mobile turbidity measurement

TB211 IR with infrared light source (ENISO7027) & USB-Interface



Measurement with infrared light at an angle of 90°, according to EN ISO 7027

The compact Lovibond[®] infrared turbidity measuring instrument TB211 IRfor fast and accurate on-site analysis. It is measured asprovided in EN ISO7027, the scattered light at an angle of 90 °.

The wide measuring range from 0.01 to 1100 TE/ F = NTU = FNUwith a detection limit of 0.01 NTU allows the use of the instrument in different areas, from drinking water to wastewater.

Since the measurements are made by means of infrared light, both coloured and colourlesswater samplescan be measured. A direct transfer of the measurement results to a PCis easy to set up via the USBinterface. The required USBcable is a standard part of the sope of the delivery.

Delivery Content

- Instrument in plastic case
- 4 turbidity standards (< 0.1, 20, 200 and 800 NTU)
- 9 V battery
- 2 cells(ø 24 mm) with lids

Accessories	
Article	Code
Turbidity standard set T-CAL (< 0.1, 20, 200, 800 NTU)	19 41 50
Set empty vials, 24 mm ø (12 pc.)	19 76 55
Cleaning cloth for vials	19 76 35
Sample chamber lid	19 80 11 00
Battery, 9 V	19 50 012
Formazin Stock Solution (4000 NTU), 125 ml	19 41 41
Formazin Stock Solution (4000 NTU), 250 ml	19 41 42
USB-Cable 1.5 m	19 80 25 09

- USBcable 1.5 m
- Warranty information
- Certificate of Compliance
- Instruction Manual Code: 26 60 30



Technical data

Measurement cycle	approx. 8 seconds
Display	backlit LCD (on keypress)
Optics	temperature- compensated LED (= 860 nm) and photosensor amplif er in water proof sample chamber, infrared light
Keypad	polycarbonate membrane, splash proof
Power supply	9 V power pack battery
Auto - OFF	automatic switch-of
Interface	Micro-USB
Storage	internal ring memory for 125 data sets
Additional feature	real time clock and date
Range (Auto-range)	0,01 - 1100 NTU
Resolution	0.01 - 9.99 NTU= 0.01 NTU 10.0 - 99.9 NTU= 0.1 NTU 100 - 1100 NTU= 1 NTU
Accuracy	± 2.5 % of reading or ± 0.01 NTU whichever is bigger 500 - 1100 NTU: ± 5 % of reading
Housing	ABS
Dimensions (LxWxH)	190 x 110 x 55 mm
Weight	approx. 0.4 kg (basicunit)
Ambient conditions	Temperature: 5 – 40 °C rel. humidity: 30 – 90 %

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Mobile turbidity measurement TB250 WL with white light source(EPA180.1)



The TB250 WL allows easy turbidity measurement either in the f eld or in the laboratory. Usinga "white light" sourceand 90° detection, the TB250 WL meets the specif cations for EPA turbidity measurement (EPAStandard 180.1). A power ef cient micro-circuit design allows the instrument to yield 5000 tests on 4-AA alkaline batteries with an estimated 7-10 year bulb life. Integrated diagnostics conf rm proper operation and accuracy. The instrument features an Auto-Ranging feature that automatically selects the correct turbidity range for your sample. Calibration is simple with the included calibration standards. The instrument comes with all the required items for testing including the TB 250 WL Turbidimeter, sample, cuvettes, batteries, calibration set, operators manual and carrying case.

Technical data

Display	large LCD display
Keypad	5 key polycarbonate membrane, splash proof
Power supply	4 AA Alkaline batteries for approx. 20 h continuous operation or 3500 tests
Range	0.01 to 1100 NTU
Accuracy	± 2 % of reading or ± 0.01 NTU whichever is greater 500 - 1100 NTU: ± 3 % of reading
Resolution	0.01 NTUto 99.99 NTU 0.1 NTUfrom 100.0 to 999.9 NTU 1.0 NTUfrom 1000 to 1100 NTU
Housing	ABS
Dimensions	210 x 95 x 45 mm
Weight	approx. 0.45 kg (baseunit)
Ambient conditions	Temperature: 0 – 50 °C rel. humidity: 0 – 90 %
CE-Conformity	

Accessories

Set of secondary standards 0.02, 10, 1000 NTU Order code: 19 42 80

Set of 3 vials with black lids Order code: 19 42 90

Delivery content

- Instrument in a sturdy handy case
- 2 sample cells
- 3 turbidity standards
- 4 batteries
- Instruction manual
- Warranty information Order code: 194200



Floc-Tester



- Waste Water Treatment Plants
- Laboratories
- Universities

ET740 (laboratory)

Stirring places	four
Stirringspeedcontrol	10 - 300 revolutions per minute
Resolution	1 revolution
Timer	1 - 999 minutes or 0 - 99 hours (continuous)
Power supply	100 – 240 V, 50 - 60 Hz
Weight	approx. 13 kg
Dimensions (mm)	645 L x 347 W x 260 H
EC-conformity	CE
Order code	2 41 91 55

Floctesters are designed for a range of applications - such as testing the ef ciency of f occulation or precipitation agents.

The ET740 model with 4 stirring places and the ET750 model with 6 stirring places are f tted with an illuminated backpanel for glare-free observation of the samples and are suitable for laboratory use.

The f oc tester ET730 with 4 stirring places is primarily designed for f eld use. The 4 stirring points are arranged in a circle around a lamp making it easier to observe the focculation process.

State-of-the-art technology ensuresmaximum operating convenience and makes the unit maintenance-free. The main features of the laboratory f oc testers are the continuously variable stirring speed, the digital display of stirring rpm, the timer function, the illuminated back panel, and the height adjustment option for the stirring bladesduring operation.

For model ET730 beakers with 1000 ml volume, low form can be used.

For models ET740 and ET750 beakers with 1000 ml - 1500 ml volume, low or high form can be used.

The beakers are not included, they have to be ordered seperatly.

ET750 (laboratory)

Stirring places	six
Stirringspeedcontrol	10 - 300 revolutions per minute
Resolution	1 revolution
Timer	1 - 999 minutes or 0 - 99 hours (continuous)
Power supply	100 – 240 V, 50 - 60 Hz
Weight	approx. 17 kg
Dimensions (mm)	935 L x 347 W x 260 H
EC-conformity	CE
Order code	2 41 91 60

ET730 (portable/field)

Stirring places	four
Stirringspeedcontrol	20 - 40 - 50 - 100 - 200 revolutions per minute
Timer	1 - 30 minutes (continuous)
Power supply	100 – 240 V, 50 - 60 Hz (including adapter for connection in the car)
Weight	approx. 4.8 kg
Dimensions (mm)	250 L x 320 W x 250 H
EC-conformity	CE
Order code	2 41 91 50

Measuring beaker, glass, low form, 1000 ml	41 91 65
Measuring beaker, PP, low form, 1000 ml	41 91 66
Bagfor transport of ET730	41 91 51

