Мутномеры DELTA OHM HD25.2

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Единый адрес для всех регионов: dmh@nt-rt.ru || www.deltaohm.nt-rt.ru

HD 25.2

HD 25.2
BENCH-TOP TURBIDITY METER

The **HD25.2** is a digital turbidity meter for laboratory and mobile use, suitable for measurements in drinking water, waste water and process liquids. The working principle is based on the nephelometric (90° scattered light sensor) method.
It is equipped with three light detectors and two LED light sources (white and infrared) which are permanently kept under control in order to guarantee long-term stability. The instrument performs measurements according to the standards **EPA 180.1, ISO-NEPH (ISO 7027), EBC and ASBC.** It is also able to carry out measures of transmission factor percentage of white and infrared light.

The initial factory calibration is based on Formazin primary standard. For routine calibration a set of stabilized secondary standard solutions is available: **STCAL** (Turbidity standards for calibration):

- **STCAL 1** less than 0,05 NTU
- **STCAL 2** equal to 8 NTU
- **STCAL 3** equal to 80 NTU
- **STCAL 4** equal to 800 NTU

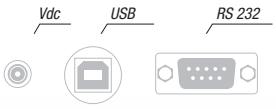
User Calibration is automatic on one or four points, depending on the measuring variable.
Stabilized power supply and advanced electronics guarantees optimal performances over time.
The HD25.2 is a **datalogger** that stores up to 999 samples.
The data can be transferred from the instrument connected to a PC via the RS232C and USB 2.0 serial ports.
The RS232C serial port can be used to transfer the acquired measurements to a 24 column printer (i.e. HD40.1)

The Print function allows to print labels with progressive and automatically incrementing numeration, with all data related to the sample being examined. The dedicated software **DeltaLog11** allows instrument management and data processing on PC.

The use of the HD25.2 by more users is facilitated by the "User Management" function, which allows, according to the case, to enable or disable some advanced functions of the instrument through password.
The protection degree is IP66.

Technical characteristics

Instrument	
Dimensions (Length x Width x Height)	220x120x55mm
Weight	400g (batteries included)
Materials	ABS, rubber
Display LCD	4½ characters plus symbols Visible area: 52x42mm
Operating conditions	
Instrument working temperature	0 … 50°C
Storage temperature instrument	-25 … 65°C
Working relative humidity	0 … 90% R.H. without condensation
Storing of Calibration standards	5…25°C (temperature should not exceed, protect from light)
Protection degree	**IP66**
Power supply	
Batteries	3 1,5 V AA type batteries
Autonomy	100 hours with 1800mAh alkaline
Mains	Mains adapter (cod. SWD10) 100-240Vac/12Vdc-1A
Measuring methods	
Standard	EPA180.1, ISO-NEPH (ISO 7027), EBC, ASBC, WHITE %T e IR %T
Light source	LED IR (850nm) and white LED (470nm)
Receiver	Silicium photodiode
Sample cell	Ø24mm - height 68mm, 20cc



Measurement of turbidity

Method / Measuring range	EPA180.1	(0…1000 NTU)
	ISO-NEPH	(0…1000 FNU)
	EBC	(0…250 EBC)
	ASBC	(0…9999 ASBC)
	WHITE %T	(0…100 %T)
	IR %T	(0…100 %T)
Resolution	0.01 NTU	(0…9.99 NTU)
	0.1 NTU	(10.0…99.9 NTU)
	1 NTU	(100…1000 NTU)
Accuracy	±2% reading + 0.01 NTU (0…500 NTU)	
	±3% reading (500…1000 NTU)	
Repeatability	±2% reading or 0.01 NTU (the major one)	

Security of memorized data	Unlimited

Time

Date and hour	real time schedule
Accuracy	1min/month max error

Measured values storing

Quantity	999 samples

Serial interface RS232C

Type	RS232C electrically isolated
Baud rate	Can be set from 1200 to 38400 baud
Data bit	8
Parity	None
Stop bit	1
Flow Control	Xon/Xoff
Serial cable length	Max 15m

USB interface

Type	1.1 - 2.0 electrically isolated

Connections

Serial interface	DB9 connector (9- pole male)
USB interface	USB connector type B
Mains adapter	2- pole connector (Ø5.5mm-2.1mm). Positive at centre.

Ordering codes

HD 25.2: The kit is composed of: instrument HD25.2, 4 empty cells, 4 calibration standards STCAL, 3 1.5Vdc alkaline batteries, lubricant rag, 25cc Silicon oil, instructions manual, carrying case and software DeltaLog11 for PCs running Windows operating systems.

Accessories

9CPRS232: Connection cable SubD female 9- pole for serial output RS232C
CP22: Connection cable USB 2.0 connector type A - type B
SWD10: Stabilized power supply at 230Vac/9Vdc-300mA mains voltage.
HD40.1: 24-column portable thermal printer, serial interface, 57mm paper width, four NiMH 1.2V rechargeable batteries, SWD10 power supply, instruction manual, 5 thermal paper rolls. Requires the cable 9CPRS232 (optional).
PL: Lubricant rag
OS1: Silicon oil - 25cc.
KCV: 4 empty sample cells Ø24x68mm

Turbidity calibration standards

STCAL 1: Calibration standard with low turbidity Formazin reference less than 0,05 NTU.
STCAL 2: Calibration standard with Formazin reference 8 NTU - 20cc.
STCAL 3: Calibration standard with Formazin reference 80 NTU - 20cc.
STCAL 4: Calibration standard with Formazin reference 800 NTU - 20cc.
KS: Kit 4 calibration standard with Formazin reference STCAL 1, STCAL 2, STCAL 3, STCAL 4.

HD40.1

ASBC

FNU

EBC

NTU

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