



C/Turb550IR and C/Turb555IR

Laboratory turbidity meters for nephelometric measurements with automatic 3-point calibration, RS 232 output, built-in real-time clock and calibration interval monitoring. Measuring range selection from 0.01 ... 1000 NTU is carried out automatically and for comparative measurements the current and previous values can be shown on the 2-line display.

Scope of supply: instrument with integral short operating instructions, accessory case with 2 empty cuvettes, 3 secondary standards (0.02 – 10.0 – 1000 NTU) and cuvette cleaning tissue.

C/Turb555 and C/Turb555IR

High-precision laboratory turbidity meters with a wide measuring range of 0.0001 to 10000 NTU for all turbidity measuring applications from ultrapure and drinking water measurements, through quality assurance in the soft drinks industry up to checking wastewater. The measuring system with its 4 detectors allows not only nephelometric (90° scatter) measurements and transmission measurements, but also ratio measurements in which the influences of stray light and sample colour are reduced.

The possibility of displaying the values in EBC units (European Brewing Convention) means that they are suitable for use in the brewing industry. The measurements are shown on an illuminated display to ensure good readability from almost any angle. The resolution of the measurement can be chosen to suit the particular application.

The menu-guided operator interface easily guides the operator through the measuring, calibration and configuration procedures. Comprehensive AQA functions such as monitoring the calibration interval or password protection for calibration and setup access help to assure the quality of the measurements and are all also included in the documentation of the measurements. The scope of supply includes everything necessary for the measurement, from calibration standards to empty cuvettes.

Specifications	CTurb550	C/Turb550IR	C/Turb555	C/Turb555IR
Measuring principle	Nephelometric	Nephelometric ratio method	Nephelometric ratio method	Nephelometric ratio method transmission
Light source	Tungsten lamp	IR-LED	Tungsten lamp	IR-LED
Measuring range NTU	0 ... 1000	0 ... 1000	0 ... 10000	0 ... 10000
FNU	–	0 ... 1000	–	0 ... 10000
EBC	–	–	0 ... 2450	0 ... 2450
Nephelos	–	–	0 ... 67000	–
FAU	–	–	–	0 ... 10000
Resolution	0.01 NTU from 0.00 ... 9.99 0.1 NTU from 10.0 ... 99.9 1 NTU from 100 ... 1000		0.0001 NTU from 0.0001 ... 9.9999 NTU 0.001 NTU from 10.000 ... 99.999 NTU 0.01 NTU from 100.00 ... 999.99 NTU 0.1 NTU from 1000.0 ... 9999.9 NTU	
Accuracy	±2% of value or ±0.01 NTU		0 ... 1000 NTU: ±2% of value or ±0.01 NTU 1000 ... 4000 NTU: ±5% of value 4000 ... 10000 NTU: ±10% of value	
Reproducibility	±1% of value or ±0.01 NTU		±1% of value or ±0.01 NTU	
Automatic measuring	Yes		Yes	
Automatic range switching				
Calibration	Automatic 1 ... 3 point calibration		Automatic 1 ... 5 point calibration	
Response time	< 3 seconds		< 6 seconds	
Display	2-line with special characters		2-line with special characters, illuminated	
Cuvettes	28 x 70 mm round cuvette		28 x 70 mm round cuvette	
Sample volume	25 ml		25 ml	
AQA functions	Calibration interval monitoring calibration protocol		Calibration interval monitoring calibration protocol password-protected access to calibration and configuration time-controlled data transmission	
Operating temperature	+10 ... +40 °C		0 ... +50 °C	
Power supply	Plug-in supply 100-240 VAC ±10% / 47-63Hz		Plug-in supply 100-240 VAC ±10% / 47-63 Hz	
Certified to	CE, TÜV/GS, UL, CSA		CE, TÜV/GS, UL, CSA	



Part No.

C/Turb550 - Laboratory turbidity meter with universal power supply 90 ... 250 V, 3 calibration standards 0.02 – 10.0 – 1000 NTU, 2 empty cuvettes	C/T/010004
C/Turb550IR - Laboratory turbidity meter for measurements according to DIN EN 27 027, ISO 7027 (EN ISO 7027) universal power supply 90 ... 250 V, 3 calibration standards 0.02 – 10.0 – 1000 NTU, 2 empty cuvettes	C/T/010005
C/Turb555 - High-end laboratory turbidity meter according to US EPA with universal power supply 90 ... 250 V, 4 calibration standards 0.02 – 10.0 – 100 – 1750 NTU, 3 empty cuvettes	C/T/010006
C/Turb555IR - High-end laboratory turbidity meter according to DIN/ISO (EN ISO 7027) with universal power supply 90 ... 250 V, 4 calibration standards 0.02 – 10.0 – 100 – 1750 NTU, 3 empty cuvettes	C/T/010007

Accessories

Set of secondary turbidity standards 0.02 – 10.0 – 1000 NTU for C/Turb550	C/T/010100
Set of secondary turbidity standards 0.02 – 10.0 – 1000 NTU for C/Turb550IR	C/T/010101
Set of secondary turbidity standards 0.02 – 10.0 – 100 – 1750 NTU for C/Turb555	C/T/010102
Set of secondary turbidity standards 0.02 – 10.0 – 100 – 1750 NTU for C/Turb555IR	C/T/010103
Secondary turbidity standard 10000 NTU	C/T/010104
Secondary turbidity standard 10000 NTU, for instruments with infrared LED	C/T/010105
Flow-through vessel for turbidity meters	C/T/010106
Flow-through vessel for applications up to 4 bar (only with C/Turb 555 and C/Turb555IR)	C/T/010107
Empty cuvettes for turbidity meters, 6 pcs.	C/T/010108
Cuvette stand for 6 cuvettes	C/T/010109
Pre-adjusted spare lamp module C/Turb550 and C/Turb555	C/T/010110
Pre-adjusted spare lamp module C/Turb550IR and C/Turb555IR	C/T/010111