

Turbidity measuring point DULCOTEST DULCO turb C

Reliable on-line measurement of turbidity with DULCOTEST DULCO turb C measuring points



Turbidity measurements with DULCOTEST DULCO turb C: Compact measuring instrument that uses light scatter to measure turbidity, with a large measuring range and different designs to comply with ISO and EPA standards. Available with or without automatic cleaning.

Features and Benefits

- Compact turbidity measuring station with integrated sensor, flow cuvette and measuring instrument saves space and is simple to install and operate.
- High dynamic measuring range between 0.02 and 1,000 NTU permits broad-based use in all stages of potable water treatment. Also ideal for monitoring waste water from clarification plants and for monitoring ruptures with filters.
- Short response times thanks to small-volume measuring cuvette.
- Long-term stable measurements, even in contaminated water, by the optional ultrasonic cleaning of the measuring cuvette.
- Fast and simple calibration on site by optionally available, pre-assembled and time-stable calibration standards.



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Technical Data

Measuring range	a) TUC1, TUC4; factory calibrated: 0...1000 NTU, other measuring ranges: 0...10 NTU and 0...100 NTU b) TUC5, TUC6; factory-calibrated 0...100 NTU, other measuring ranges: 0...10 NTU and 0...1000 NTU
Accuracy	± 2 % of the indicated value or ± 0.02 NTU below 40 NTU depending on which value is greater ± 5 % of the indicated value above 40 NTU
Resolution	0.0001 NTU below 10 NTU
Response time	Configurable
Display	Multiple row LCD display with background lighting
Alarm relay	Two programmable alarms, 120-240 VAC, 2 A Form C relay
Output signal	4...20 mA, 600 Ω, electric isolation: dual insulation, interference surge category II
Communication interface	Bi-directional RS-485, Modbus
Max. pressure	Integrated pressure regulator regulates TUC1, TUC2: 1380 kPa (200 psi) TUC 5, TUC6: 700 kPa (101,5 psi) based on the flow rate
Flow	1.6...15.9 gph 6...60 l/h
Temperature	34...122 °F (1...50 °C)
Materials in Contact With the Medium	Polyamide (PA), silicone, polypropylene (PP), Viton®, stainless steel, borosilicate glass
Voltage supply	100 – 240 V AC, 47 – 63 Hz, 80 VA
Hydraulic connections	Black hose, inside 4.75 mm, outside 8 mm, installation in the bypass for the process main line
Ambient conditions	Not suitable for operation outdoors. Maximum operating altitude 2000 m above sea level. Maximum 95% relative air humidity (non-condensing).
Standard	Infrared light: ISO 7027, DIN EN 27027
Dimensions H x W x D	13.8 x 11.8 x 11.8 in
Shipping weight	5.5 2.5 lb kg

	Standard	Ultrasonic cleaning	Order no.
TUC 1	Infrared light: ISO 7027, DIN EN 27027	No	1037696
TUC 2	White light: US EPA 180.1	No	1037695
TUC 5	Infrared light: ISO 7027, DIN EN 27027	Yes	1115440
TUC 6	White light: US EPA 180.1	Yes	1115441