

# Mi415 Turbidity Meter

Turbidity refers to the concentration of undissolved, suspended particles present in a liquid. Turbidity is a measure of the clarity of a sample. For potable water applications turbidity is a good indicator of water quality.

Turbidity Measurement is achieved by analyzing the amount of light refracted from suspended particles such as clay, silt and organic material. By measuring turbidity, by photometric or tube methods, it is possible to estimate suspended solids content.

**Mi415** has two operating ranges; 0.00 to 50.00 FNU, and 50 to 1000 FNU that can accommodate the most turbid condition you may encounter.

**Mi415** is supplied in a hard carrying case, complete with calibration solutions.



Specifications	Mi415 Turbidity Meter
Range	0.00 to 50.00 FNU; 50 to 1000 FNU
Resolution	0.01 FNU; 1 FNU
Accuracy	±0.5 FNU or ±5% of reading, whichever is greater
Method	detection of scattered light
Light Source	high emission infrared LED
Light Detector	silicon photocell
Environment	0 to 50°C / 32 to 122°F; max RH 100%
Battery Type	1 x 9V
Auto-off	after 5 minutes of non-use
Dimensions	192 x 104 x 52 mm
Weight	380 g



## Introduction to Turbidity

The cloudy appearance of water (called Turbidity) is caused by suspended material. The unit of measure adopted by the ISO Standard is the FNU (Formazine Nephelometric Unit) and by EPA is NTU (Nephelometric Turbidity Unit). The other two methods used to test for turbidity and their measurement units are the JTU (Jackson Turbidity Unit) and the Silica unit (mg/L SiO<sub>2</sub>). See the conversion table of these methods and their units for your reference.

	JTU	FTU (NTU/FNU)	SiO <sub>2</sub> (mg/L)
JTU	1	19	2.5
FTU	0.053	1	0.13
SiO <sub>2</sub>	0.4	7.5	1

## Accessories

**Mi515-100** AMCO-AEPA-1 @ 0 FNU calibration solution, 30 mL  
 AMCO-AEPA-1 @ 10 FNU, calibration solution, 30 mL  
 AMCO-AEPA-1 @ 500 FNU, calibration solution, 30 mL



**Mi0011** Glass cuvetts (2 pcs)  
**Mi0012** Caps for cuvetts (2 pcs)  
**Mi0013** Stoppers for cuvetts (2 pcs)

## Ordering Information

**Mi415** is supplied complete with 2 cuvetts, calibration solutions, hard carrying case, wiping tissue, 9V battery and instructions.