



Mi405/Mi407/Mi408/Mi412 Ammonia, Iron & Phosphate Photometers

These user-friendly Colorimeters will give you direct readings in mg/L.

Ammonia detection in water treatment systems is particularly important for aquarium owners and fish farm operators.





Ammonia is highly soluble in water and extremely toxic to fish. Fish farm owners must monitor and maintain careful control of ammonia levels to ensure optimum water conditions for their stock. Milwaukee offers 2 instruments for low and medium concentrations: **Mi405** with a range of 0.00 to 9.99 mg/L and **Mi407** from 0.00 to 3.00 mg/L.

Iron is naturally present in water supplies and its presence in both potable and industrial applications is regarded as objectionable. Milwaukee offers **Mi408** Iron meter with a range of 0.00 to 5.00 mg/L.

Phosphates are present in natural waters and at concentrations typically found, do not pose any specific health threats to humans.

However, excessive contamination of water courses from agricultural fertilizer run off or wastewater/effluent discharge can promote excessive algae or plant growth. Milwaukee offers **Mi412** with range 0.00 to 2.50 mg/L.



Specifications		 Mi405 Ammonia MR	 Mi407 Ammonia LR	 Mi408 Iron HR	 Mi412 Phosphate LR
Range	Ammonia Iron Phosphate	0.00 to 9.99 mg/L (NH ₃ -N)	0.00 to 3.00 mg/L (NH ₃ -N)	0.00 to 5.00 mg/L (Fe)	0.00 to 2.50 mg/L (PO ₄)
Resolution	Ammonia Iron Phosphate	0.01 mg/L	0.01 mg/L	0.01 mg/L	0.01 mg/L
Accuracy	Ammonia Iron Phosphate	±0.10 mg/L @ 5.00 mg/L	±0.04 mg/L @ 1.50 mg/L	±0.03 mg/L @ 1.50 mg/L	±0.04 mg/L @ 1.00 mg/L
Method		adaptation of Nessler method	adaptation of Nessler method	adaptation of the USEPA method 315 B and Standard method 3500 - Fe B	adaptation of the Ascorbic Acid method
Light Source		Blue LED 466 nm	Blue LED 466 nm	tungsten lamp	tungsten lamp
Light Detector		silicon photocell and 466 nm narrow band interference filter	silicon photocell and 466 nm narrow band interference filter	silicon photocell and 525 nm narrow band interference filter	silicon photocell and 610 nm narrow band interference filter
Environment		0 to 50°C / 32 to 122°F max RH 100%	0 to 50°C / 32 to 122°F max RH 100%	0 to 50°C / 32 to 122°F max RH 100%	0 to 50°C / 32 to 122°F max RH 100%
Battery Type		1 x 9 V	1 x 9 V	1 x 9 V	1 x 9 V
Auto-off		after 10 minutes of non-use	after 10 minutes of non-use	after 10 minutes of non-use	after 10 minutes of non-use
Dimensions		192 x 104 x 52 mm	192 x 104 x 52 mm	192 x 104 x 52 mm	192 x 104 x 52 mm
Weight		380 g	380 g	380 g	380 g

Accessories

- Mi505-100** Ammonia MR liquid reagent (100 tests)
- Mi507-100** Ammonia LR liquid reagent (100 tests)
- Mi508-100** Iron HR liquid reagent (100 tests)
- Mi512-100** Phosphate LR powder reagent (100 tests)

- Mi0001** Glass cuvetts (2 pcs)
- Mi0002** Caps for cuvetts (2 pcs)
- Mi0003** Stoppers for cuvetts (2 pcs)



Ordering Information

Mi405, Mi407, Mi408 and **Mi412** are supplied complete with 2 cuvetts, reagents for 100 tests, hard carrying case, wiping tissue, 9V battery and instructions.