

At the heart of the system are ATi's new industry-leading M-Nodes, a complete sensor and transmitter housed in a miniaturised body.



M-Nodes are complete water quality monitors equivalent to traditional online instruments. The M-Nodes are connected to the water supply using a purpose designed 'click-connect' flow cell arrangement. M-Nodes are connected in series to minimise water usage and can run at pressures up to 6 bar. M-Nodes are ultra low-powered and run autonomously for years at a time on small batteries. Alternatively they can be powered from a local plc or telemetry system.

Flexibility is key with M-Nodes - they can be connected to any data gathering system. The modular nature enables users to assemble a monitoring package that fits individual site requirements. All M-Nodes plug directly into the MetriNet system and are powered directly from the communications bus.



Available M-Nodes



M-Node sensors are available for a variety of water quality parameters. Users simply select the parameters required for a specific location and assemble them into an integrated system.

All Nodes communicate on a common RS-485 sensor bus using Modbus protocol. Each M-Node has an IP-67 M8 water-tight connector for external communication. Power for the M-Node system is also supplied via the RS-485 bus. Nodes may even be used independently by system integrators who wish to communicate directly with the nodes using their own PLC system.



M-Nodes

Part Number	Parameter and Range	Resolution
00-1847	Free Chlorine 0-5.00ppm	0.01 ppm
00-1848	Conductivity 0-2000uS	1 uS
00-1849	pH 2-12 pH	0.01 pH
00-1850	ORP 0-1000mv	1 mv
00-1851	Dissolved Oxygen 0-20.00ppm	0.01 ppm
00-1852	Dissolved Ozone 0-5.00ppm	0.01 ppm
00-1853	Turbidity 0-40.00 NTU	0.01 NTU
00-1854	Combined Chlorine 0-5.00ppm	0.01 ppm
00-1855	Total Chlorine 0-5.00ppm	0.01 ppm
00-1856	Fluoride 0.1-10.00ppm	0.01 ppm
00-1857	Chlorine Dioxide 0-2.00ppm	0.01 ppm
00-1858	Peracetic Acid 0-200ppm	1 ppm
00-1859	Hydrogen Peroxide 0-20.00ppm	0.01 ppm
00-1863	4E Conductivity 0-2000mS	1 uS
00-1864	Pressure 0-300 PSIG (0-20 Bar)	1 PSI
00-1861	Nitrite 0-2.000ppm	0.01 ppm