

Pollution & Process Monitoring Ltd...

water quality instrumentation specialists

PPM is a UK manufacturer & distributor of on-line water quality instrumentation suitable for water, waste-water and process control applications. We have considerable experience providing bespoke monitoring stations including sample preparation, sample acquisition, secondary enclosures and analyser kiosks, to suit the application. Distributed product includes probe and analyser technology, specifically designed to provide reliable measurement including options to connect multiple sensors to a common transmitter, to reduce the cost of installation.

Total Organic Carbon (TOC)

Instrument: Protoc 300

Description: UV-Persulphate chemical oxidation analyser with automatic calibration & chemical cleaning. Continuous measurement with local display & outputs.



Various configurations & ranges to suit application. Analyser ranged within 0 to 500 PPB or 10,000 PPM TOC (40,000 PPM with sample dilution).

Ammonia (NH₃-N)

Instrument: Proam ammonia

Description: Ammonia gas sensing ISE analyser with caustic / EDTA reagent addition, automatic calibration & chemical cleaning. Continuous measurement with local display & outputs.



Various configurations & ranges to suit application. Analyser ranged within 0 to 500 mg/l N (15,000 mg/l with sample dilution). Handrail or stand mounting options available.

Oil on Water Detection

Instrument: OFD

Description: Non-contact surface film detection using continuous reflection measurement. Detection of visible traces with local display & outputs.



Various styles of installation to suit application. Suitable for in-situ measurement within 1.50m of water surface. Break-tank measurement for pumped or pressurised sample feed.



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Our current product line includes both analyser and probe measurement technologies, to report key water measurement parameters. Different technologies offer different price / performance metrics, allowing for both process trending and compliance measurement capabilities. Detailed product information is digitally available on our website. The table below provides a quick reference for the most common parameters.

Measurement ◆ Parameter	Technology ◆ Analyser (A) ◆ Probe (P)	Application ◆ Clean Water (C) ◆ Waste-Water (W)	Description ◆ Measurement Technology ◆ Features
Ammonia	◆ A	◆ C & W	ISE analyser technology, continuous measurement of ammonia or ammoniacal-nitrogen with auto-calibration & cleaning.
Ammonium	◆ A & P	◆ W	ISE analyser with auto-calibration or ISE probe technology for in-situ ammonium analysis (compressed air cleaning option).
Colour	◆ P	◆ C & W	Optical probe technology at specified wavelength or Hazen (compressed air cleaning option).
Conductivity	◆ P	◆ C & W	Digital 2 or 4 electrode sensor with integral temperature measurement & compensation (compressed air cleaning option).
Dissolved Oxygen (DO)	◆ P	◆ C & W	Digital optical sensor with integral temperature measurement & compensation (compressed air cleaning option).
Iron	◆ A	◆ C & W	Colorimetric analyser technology with auto zero-point adjustment.
Nitrate	◆ A & P	◆ C & W	Optical UV or ISE probe technology (compressed air cleaning option) for in-situ analysis or ISE analyser with auto-calibration.
Nitrite	◆ P	◆ C & W	Optical UV probe technology (NOx or Nitrate & Nitrite versions) for in-situ analysis (compressed air cleaning option).
Oil in water	◆ P	◆ C	Digital UV-fluorescence optical probe measuring PAH oil in water.
Oil on water	◆ P	◆ C & W	Non-contact surface detection of floating oil film at visible traces.
pH / Redox	◆ P	◆ C & W	Digital combination sensor (pH or ORP) with integral temperature measurement & compensation (compressed air cleaning option).
Phosphate	◆ A	◆ C & W	Colorimetric analyser technology with auto zero point adjustment.
Suspended Solids (SS)	◆ P	◆ W	Probe (IR) transmission or back scatter measurement (ultrasonic & compressed cleaning options).
Total Organic Carbon (TOC)	◆ A	◆ C & W	Analyser technology, continuous measurement of TC or DOC, single or multiple sample streams with auto-calibration & cleaning option.
Turbidity (NTU)	◆ A & P	◆ C & W	Flow though (IR or white light) or probe (IR) nephelometric measurement (ultrasonic & compressed cleaning options).
UVT / SAC	◆ A & P	◆ C & W	Optical UV probe technology to report % UV-transmission or UV254nm absorption (compressed air cleaning option).

Bespoke systems include instruments pre-mounted within small secondary enclosures or walk-in analyser kiosks to suit requirements, including electrical and sample distribution, frost protection and internal lighting. Analytical systems are supported by a range of sample preparation systems removing suspended solids and biology which can otherwise impact upon measurement reliability. Probe technologies may be integrated in sample break-tanks receiving a pumped sample, flow cells or mounted directly into open channels and tanks, for in-situ measurement.

Walk-in Analyser Kiosks



Small Secondary Enclosures



Instrument Panels

