# See a clearer picture of your network.

## Portable, online turbidity monitoring with Bluetooth.

Following extensive research and listening to our customers requirements, ATi UK's Innovation Hub have re-engineered and developed a superior solution to help you see a clearer picture of turbidity in your network.

When it was released, the original NephNet revolutionised the water industry, but with our new NephNet solution, turbidity monitoring just got better.

Our specialist knowledge in the sector of network monitoring allows us to lead the way in portable, online turbidity monitoring and take an already great product and turn it into something genuinely unique.

The new NephNet enclosure never needs to be opened and with the addition of Bluetooth, it will generate live data accessed via the dedicated app, transmitting it to the web portal for easy access.

### Tried and trusted turbidity sensor technology

Using our existing and proven turbidity sensor means you will benefit from ATi's expertise in the water quality sector. Our knowledge in this field is unrivalled, ensuring the ability to generate accurate and reliable data, time after time.

### Enclosure

The new Nephnet is a remote telemetry unit (RTU), housed in an updated, superior enclosure that:

- Powers and controls the NephNet turbidity sensor
- Provides live readings via the BIT (plug in Bluetooth interface) to the mobile phone app
- Stores turbidity readings
- Transmits data to the Clamnet web portal

### Key features

- A powerful rechargeable 12V battery allows continuous powering of the NephNet for high frequency data readings during mains flushing exercises or long term deployment for turbidity investigation programmes.

- Can be set-up on site using the App, which allows stop-start of unit, live data to be displayed, storage of GPS and descriptive location data, data collection into the app, configuration changes for data reading and upload intervals.

- Bi-directional communication allows over-the-air firmware updates and configuration changes to be made when the NephNet communicates with the Clamnet web portal.

- Alarm thresholds can be set that will trigger an immediate connection to the web portal to upload data & email the alarm details to predefined contacts.

## Technical Specifications:

| Sensor | |
|---|---|
| Range | 4/400 NTU (0-4.000, 0-40.00, 0-400.0), Factory default is 0 – 20.00 NTU* |
| Accuracy | ± 5% of reading or ± 0.02 NTU whichever is greater |
| Linearity | 0.1% of F.S. |
| Operating Conditions | -20° to +55° C., 0-95% R.H. noncondensing |
| Measurement Angle | 90-degree scatter (nephelometric) |
| Response Time | 95% in 10 seconds |
| Sensor Power | 9-36 VDC |
| Sensor Temperature Limit | 0 - 50° C |
| Sensor Pressure Limit | 0 - 6 bar |
| Sensor Output Range | 400 mV – 2000 mV |
| Connections | 7-conductor sensor cable, 1meters |
| Sensor Materials | Delrin body, Acrylicoptical windows |
| Flowcell Materials | PVC |
| Flowcell Connections | 6 mm tube fittings |

| Enclosure | |
|---|---|
| Memory | Up to 50,000 data points can be stored within the device |
| Data Transmission | Cellular communications to the cloud based web portal via an integral modem at user specified upload intervals |
| Temperature | Ambient temperature 0 - 40 °C / Storage -20 – 70 °C |
| Enclosure Material | ABS injection moulded enclosure |
| IP Rated | IP68 (up to 1m depth for 24 hours) |
| Power | 12V 6.8Ah rechargeable battery pack |
| Dimensions | 160mm x 160mm |
| Weight | 800g |

*ATi can configure the range to whatever is required, within the ranges listed above.



**The NephNet portable turbidity monitor is available in a handy carry that includes:**
Turbidity sensor & flow cell, telemetry enclosure, NRV (Non-return valve),
PRV (pressure reducing valve), hydrant hose, charger.

**Optional:**
Hydrant cap, LCD display

ATi UK is a leading provider of engineered, analytical sensor monitoring solutions
to the water and gas industry. Our pioneering and industry leading range of
Network Monitors, Water Quality Monitors and Gas Detectors provide innovative
solutions for the most demanding of applications.



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