



MCE-ESNET2 Kiosk Monitoring System

- 3G / GPRS / GSM
- Mains / Solar Power
- Integrated Pump
- Integrated Flowcell
- Robust Enclosure
- Lightweight system
- Modular design
- Expandable
- Quick Deployment
- Web enabled
- Secure, instant data

The MCE-ESNET2 Kiosk is part of the Meteor ESNET Modular Monitoring System. It is a complete stand-alone pumped Environmental monitoring Station. It allows high resolution, real time water quality data to be acquired from water bodies which are subject to low flow or high fouling.

The ESNET2 kiosk is designed for use with a multiparameter sonde which is fitted into the integrated flowcell. Representative samples of water are automatically pumped into the flowcell using the inbuilt peristaltic pump. When analysis of the sample is complete the water sample is returned, leaving the flowcell empty. The design allows for a wide variety of other environmental sensors to be connected for simultaneous data acquisition. Data is transferred in real time over 3G, GPRS or GSM to the Meteor Data Centre, where all information can be accessed via the secure MeteorCloud web portal or integrated to SCADA.

The robust Stainless Steel enclosure houses an ESNET2, PELI Kiosk Control Unit, Peristaltic Pump system and flowcell. It can be powered from battery backed solar or mains supplies and has low power consumption. As a lightweight, modular design it can be rapidly deployed to remote locations. Sensors for Level, Flow or meteorological measurements can be connected along with the ability to control remote equipment such as autosamplers



I/O Specification

RS232	1 Port Selectable Baud Rate 300-9600
SDI-12	Up to 10 SDI-12 Instruments addressable 0-9
Analogues	Up to 4 inputs, selectable 4-20mA, 0-20mA, 0-5V, 0-12V, 0-30V
Digital	Up to 4 multipurpose digital inputs configurable (State, Event, Count)
Relay Output	SPDT Relay output 60V / 1A switching capability

Communications

Modem	Quad Band GSM/GPRS/EDGE Class 10/12, Tri Band W-CDMA/HSDPA (3G)
Antenna	Vandal Resistant puck or TNC Bulkhead external

Physical Characteristics

Dimensions	1470 high (inc base) x 380 deep x 1000mm
Weight	30kg (excluding batteries)
Operating Temperature	0 to +50° C
Housing	Stainless Steel
IP Rating	IP66 (ESNET Modular components) IP54 (Kiosk enclosure)

Power

Operating Voltage	12V DC, 240V or 110V AC
Operating Current	>7mA idle
Charge	Solar panel, Mains (240/110V AC)
Batteries (Optional)	72Ah or 144Ah Deep discharge cyclical

Pump Characteristics

Flow Rate	Up to 5.3 l/min (12V variant), up to 12 l/min (Mains variant)
Head Type	2 Roller peristaltic
Control	Automatic forward / reverse operation with soft start
Suction lift	Self priming up to 8m



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