

SYZE Enviro Datalogger - Specification Sheet

Key Features

- Protocol Integration: MODBUS RTU, MQTT, HTTP, FTP; CPCB/HSPCB compliance ready.
- Remote OTA Sync: GSM/4G updates, offline caching, auto retry.
- Multi-I/O Capability: Analog, digital, RS485, RS232 sensors supported.
- Fault Logging & Alerts: Timestamped alerts with diagnostic retries.
- Field Proven Reliability: Installed across PHED/CPCB/Industrial sites.
- Expandable USB Inputs: For converters, flash drives, or local HMI.
- HDMI Output: Connects to local displays for debugging/dashboards.
- Multiple Ethernet Ports: Expandable via HATs or USB adapters.
- Edge Processing: Supports local filtering, rule-based logic, and storage.
- Programmable: Custom scripts in Python/Node.js, scheduler-ready.

Deployment Use Cases

- Industrial Sites: ETP/STP monitoring for DO, pH, and flow parameters.
- PHED Haryana: Used in 20+ sewage treatment projects.
- Smart Infra: SCADA connectivity via RS485/Ethernet.
- Remote Zones: Solar-powered setups with GSM telemetry.

Telemetry Snapshot (Typical Values)

- Uptime: 98.7%
- Last Sync: 5 minutes ago
- Packets Sent: 1.2M
- Faults Logged: 0
- OTA Last Updated: 15/06/2025

Standards & Protocols Supported

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- Supported MODBUS RTU
- Supported MQTT v3.1
- Supported HTTP Push
- Supported FTP Upload
- Supported CPCB Format v2.2
- Supported GSM/4G OTA
- Supported Edge Ready