

03/2024

POWERED BY
DEVIANK



Open Smart Monitor



ENV01

A smart IoT device built to monitor; environmental parameters, energy usage, waste, costs and productivity.

Parameters



Electricity Usage



Water Usage



Gas Usage



Sound



Temperature



Light Levels



Air Quality



Humidity



**Increase
Productivity**

Comms

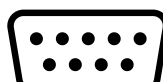


**Reduce
Costs**

Connectivity



CAN bus



RS232



RS485



1-wire

**Compliance
Aid**



Technical Specification

Built-in measurements:

- Air Quality
- Temperature
- Relative Humidity
- Sound Level Meter
- Light Level Meter

Air Quality

(PM1.0, PM2.5, PM4, PM10, VOC Index, *NOX Index)

Range: 0 - 1000ug/m³

Resolution: 1.25ug/m³

Accuracy: (0 µg/m³ to 100 µg/m³ range ±10 µg/m³), (100µg/m³ to 1000 µg/m³ range ±25 %)

Temperature:

Range: -10 to +50°C

Accuracy: ±0.45°C

Humidity:

Range: 0 - 90%RH

Accuracy: ±4.5%RH

Sound Level Meter:

Range: 35.1 - 122.5dB

Resolution: 0.1dB

Accuracy: ±2dB

Light Level Meter:

Range: 0 - 3500 Lux

Resolution: 1 Lux

Accuracy: ±5.0% (RDG)

External measurements/inputs:

- 15A/30A/50A/100A/200A* Current Clamp (1ph/3ph)
- Pulse Input x 2 (3.3V to 24V DC Levels)
- RS485 Modbus (e.g. Utility Meters, BMS, Sensors)
- CAN Bus (e.g. Control modules, Sensors)
- 1-Wire DS18B20 Temperature Probe

Current Clamps:

Channels: 1-3

Range: 0 - 200A

Resolution: 0.081A

Accuracy: ±1.0% (RDG)
(Suitable for cable size up to 13mm diameter)

Digital Inputs (Pulse/1-Wire Functions):

Channels: 2

Range: 0 - 100kHz

Modbus RTU RS485:

Supports 8 devices & 16 registers/device

Data rate: 1Mbps

ESD Protection:

±15 kV IEC 61000-4-2 air discharge

±8 kV IEC 61000-4-2 contact discharge

CAN Bus:

Data rate: 1Mbps

Compliant with ISO 11898-2

ESD Protection Exceeds ±16 kV HBM

Licenses: Hardware: CERN OHL-W v2

Software: LGPLv3

***Special Order**

Power: USB Type C 5V 1A adaptor (supplied),

Weight: 350g

Dimensions: 110mm x 90mm x 48mm

Comms: WiFi or LoRaWAN

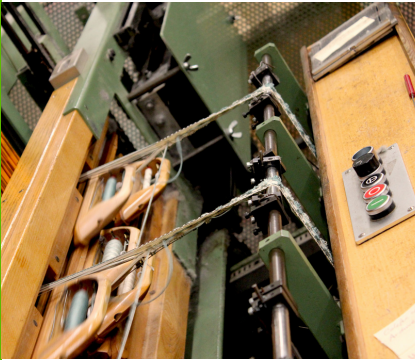


Certifications



Use Cases & Industries

Case
Studies



**Machine
Monitoring**



**Predictive
Maintenance**



**Energy
Monitoring**



**Productivity
Insights**



Green Energy



**Remote
Monitoring**



**Clean Room
Monitoring**



**Smart
Farming**



Smart Cities

Ordering Details

OSM-ENV01-CTx-Ax-Px-Bx-Rx-COMx

CT0 Current clamps not supplied (default)

CT1 1-phase current clamp

CT3 3-phase current clamps

A0 Air Quality Sensor not fitted (default)

A1 Integrated Air Quality Sensor

P1 External DS18B20 Temperature Probe

B1 Side Arm Brackets (default)

B2 DIN Bracket

B3 VESA Bracket

R(X) Europe(1), USA/AUS(2), Korea(3), Asia(4), India(5)

COM Communications Protocol

COM1 = WIFI (2.4GHz)

COM2 = LoRaWAN



sales@devtank.co.uk
01332650944