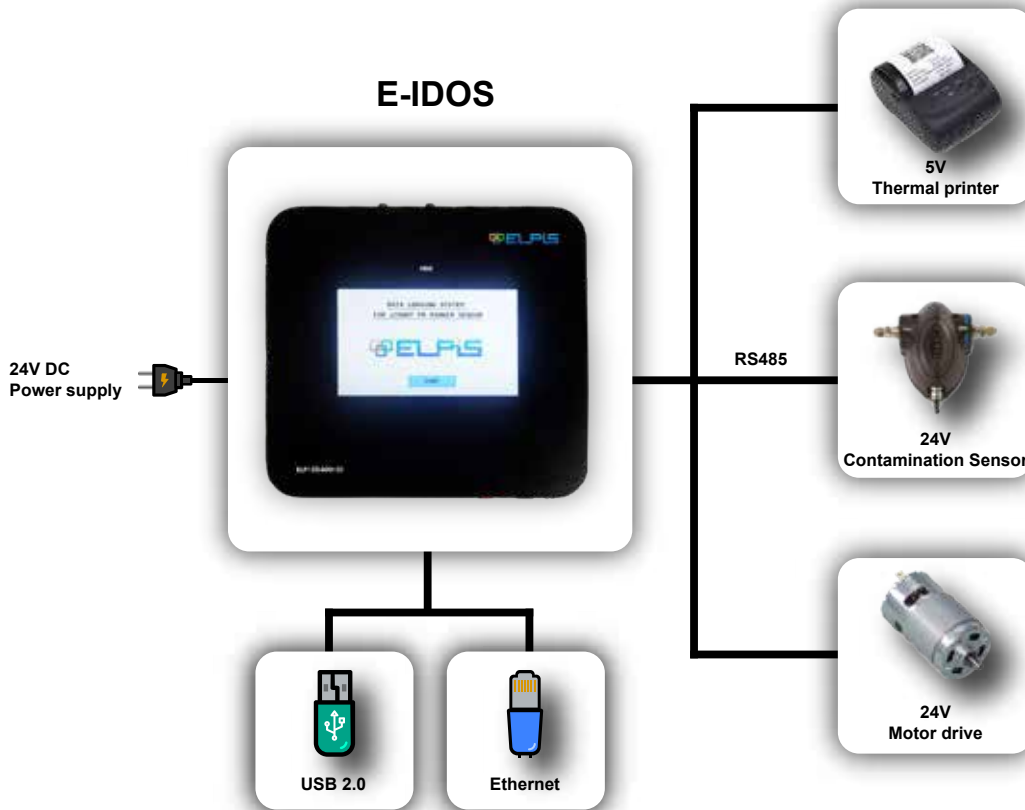# E-IDOS

Elpis IoT Device for Oil Sensing

Elpis offers a rugged industry IoT product E-IDOS to measure contamination of Hydraulic oil majorly in Oil & Gas, Mining & Construction, Aerospace and across all machine manufacturers.

E-IDOS acquires data such as solid particle, water saturation and temperature in hydraulic oil both in on-line and off-line states. It is widely used in the industry for performing realtime analysis of the oil contamination and water saturation. The data curated from these analysis helps in running predictive maintenance.

The product comes with a wireless communication interface, thermal printer, sensor interface, optional DC motor, battery back-up and touch screen based human machine interface (HMI). With easy configuration and quick setup the device can measure, display, record and print instantly the fluid data with time stamp and report can be sent over email automatically

Block Diagram:

E-IDOS

24V DC
Power supply

RS485

5V
Thermal printer

24V
Contamination Sensor

24V
Motor drive

USB 2.0

Ethernet

* DAQ HMI interfaces with external components like thermal printer, contamination sensor and motor.

Data Sheet:

Hardware	
Motor	24V DC motor drive with variable Speed
Power Supply	Input 24V DC
Display	HMI 5" Capacitive Touch
Printer	Thermal printer, 58mm
Interface	RS232/RS485 for contamination sensor
Connectors	M12 Connectors for sensor
Switch	Power On/Off
Software Applications	
BLE Android App	
CSV Report Generation	
E-Mail Support	
Technology	
Wireless Communication interface	4G, Wi-Fi, and BLE (Optional)
Peripherals and Accessory	
USB ports	2 nos
Ethernet Port	1 no
Battery	Rechargeable Li-Ion Battery (Optional)
Back Up	Built in 4 hrs battery back up
Standards	
Cleanliness Code	ISO 4406 /NAS 1638 Compatible

APPLICATIONS:
- Monitoring system on heavy engineering vehicles
- Construction Equipment
- Excavators, Dumpers
- Industrial Hydraulics
- Hydraulic test stands
- Tech benches in automotive
- Oil & Gas Generation plants

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Our Products: Data Acquisition Systems, Location Based Solutions, Data Analytics Solutions, OPC Products
Our Solutions: Industrial Automation Software, Customer Enterprise Solutions, Cloud & Embedded IOT Mobile Dev
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CONTMINATION MONITORING PARAMETERS:

The E-IDOS Device continuously logs the contamination data, captures every measure with in time interval specified and gives out the readings in ISO/NAS standards.

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