



scadabox



**INDUSTRY 4.0**

**IoT Solutions**

Platform as a Service - PaaS

Embedded Servers

IoT Edge Devices

Smart Displays

IoT Gateways



### Device Monitoring & Integration



Scadabox platform designed with rich I/O, can easily make connections to different domains of devices and systems allowing a wide variety of applications.

- PLC monitoring & control
- Controllers & Indicators integration
- Cloud connectivity of sensors & controllers allowing remote monitoring
- Integration of production data with ERP / QC systems
- Datalogging & Analytics

### Cloud powered process monitoring



Any production data at your fingertips Anywhere & Anytime

Combine & Analyze process data across multiple sites

Aggregate production data to identify and correct quality issues

Monitor production flow in near-realtime Observe historical reports and trends

Device(s): ETP-ASP-plant, ETP-EDU-plant

Parameters: COD

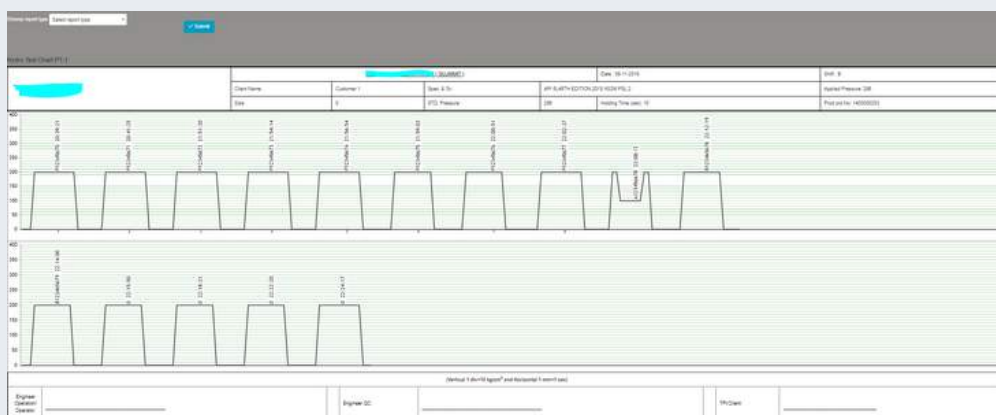
Start date: 2021-08-26 00:00

End date: 2021-08-26 00:00

Select Grouping: Minutes

Type Of chart: Line

Time	ETP-ASP-plant	ETP-EDU-plant	CRV
01/08/2021 00:00:29	6.54	0.00	0.00
01/08/2021 00:00:45	0.00	7.90	0.00
01/08/2021 00:00:59	0.00	0.00	7.13
01/08/2021 00:11:34	6.46	0.00	0.00
01/08/2021 00:12:49	0.00	7.90	0.00
01/08/2021 00:16:04	0.00	0.00	7.91
01/08/2021 00:21:38	6.46	0.00	0.00
01/08/2021 00:22:54	0.00	7.91	0.00
01/08/2021 00:26:06	0.00	0.00	7.00
01/08/2021 00:31:43	6.46	0.00	0.00



- Implement process parameter based alerts
- Increase production efficiency
- Improve production quality
- Reduce machine downtime
- Customized reporting & Charting
- Highly customizable UI



### Embedded Server & Local Monitoring



**Power of Scadabox cloud packed in**  
 + Small form factor  
 + Eco-Friendly  
 + Ultra affordable  
 + Fast & powerful system

**Applications :**

- Plant level data acquisition and integration
- Production / process data feed to SAP / custom ERP / QC software
- Local level alert and notification
- multi-PLC/ multi-device cloud gateway
- Paperless data-logger

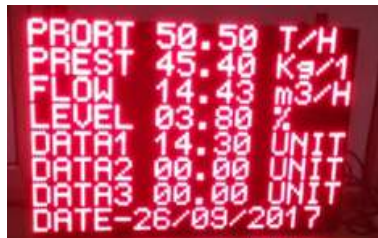
**Hardware Specifications**

- Quad-core 1Ghz+ processor | 2 GB / 4 GB RAM |
- Ethernet
- Wifi 2.4Ghz
- 2x USB 3.0 A ports

**Connectivity**

- Modbus - RS485 | Modbus - TCP/IP | OPC-UA | Siemens S7Comm
- WEB API - GET/ PUT Client | MQTT | LORA | WebSockets | TCP sockets
- Web API Server | TCP Server | AWS / Azure / Google cloud iot

### Smart IoT Displays



**Applications :**

- Plant level data acquisition and display
- Multi channel AI / DI jumbo display
- GPS clock | master-slave sync clock
- Environmental data display - Air Quality / water quality / STP data
- Safety / incident data display
- Remote site data monitoring

**Specifications**

- Font Size : 2.5 Inch | 4 Inch | 6 Inch | 300mm
- Display size : 1 ft to 20 ft
- Colors: Multicolor 4mm pitch 6 mm pitch | Single color : red | yellow | white

**Connectivity**

- Modbus - RS485 | Modbus - TCP/IP | OPC-UA | Siemens S7Comm
- WEB API - GET/ PUT Client | MQTT | LORA | WebSockets | TCP sockets
- multi 4-20mA input / multichannel DI | relay output for alarm & control

### IOT Edge Devices & Gateways



**Applications :**

- Plant level data acquisition
- Multi channel AI / DI | Modbus - multidevice connectivity
- Remote site data monitoring
- Cloud data connectivity
- Cold-chain / Storage monitoring
- Fleet tracking

**Connectivity**

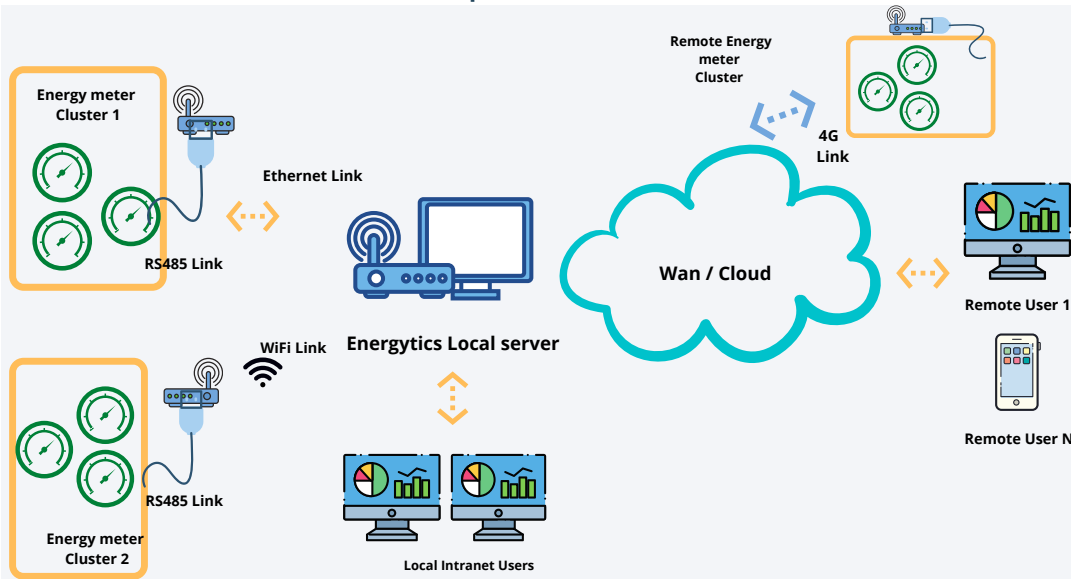
- Modbus - RS485 | Modbus - TCP/IP | OPC-UA | Siemens S7Comm
- WEB API - GET/ PUT Client | MQTT | LORA | WebSockets | TCP sockets
- multi 4-20mA input / multichannel Digital Input
- Wifi 2.4Ghz | GSM 2G - 4G | GPS Glonass

### Platform as a Service - PaaS & OEM Support

Scadabox platform is designed with keeping needs of OEMs in mind. it is not just a solution for end-users. it enables OEMs to upgrade to the world of IoT & Cloud technology instantly.

- + Instant and easy integration - reduces time to market.
- + Ultra affordable with PayAsYouGo plans
- + Zero overhead of time and resources from R&D and maintenance.

## Flexible & Scalable Cloud powered architecture



A powerful analytics system.

+ Ultra affordable.

+ Extremely scalable - 1 to 256 devices

+ Multisite data integration .

+ DG set monitoring & tracking.

+ Reliable , fast , effective notification and alerts on set-points.

+ Fast & powerful architecture

- Convenient - Simple plug and play install, easy to configure , easy to use intuitive user interface.
- Accessible - All logs and data easily available on cloud / intranet of the plant.
- Scalable - Energytics platform can easily cope up with your organization needs, from a single to several hundred data point collections.
- Flexible - Energytics supports a vast variety of energy meters / PLCs / Controllers , and can easily communicate data using wired/wireless transmission medium. data acquisition of very remote sites using 4G mobile network
- Alarm facility and notification of critical events on screen , via emails and SMS .
- Customized reports to suite your reporting requirements
- REST-API availability for integration of data with another applications / ERPs.

The screenshot shows the software interface. On the left is a dashboard with 12 energy meter cards, each displaying voltage (V), power (KW), and power factor (PF). In the center is an 'Energy Consumption Comparison' bar chart showing consumption over time. On the right are two donut charts for 'Present Load' and 'Monthly consumption'. Below these is a 'Consumption Report' table with columns for Start Time, Start Reading, End Time, End Reading, and Consumption.

Device	Start Time	Start Reading	End Time	End Reading	Consumption
Feeder	2020-03-31 09:01:00	16483.848	2020-04-01 09:00:00	16483.848	0
Main	2020-03-31 09:01:00	48871204.000	2020-04-01 09:00:00	48894798.000	23592
Dairy	2020-03-31 09:01:00	40954808.000	2020-04-01 09:00:00	40954808.000	0
HT	2020-03-31 09:01:00	5692550.500	2020-04-01 09:00:00	5716126.000	23575.5
Panel	2020-03-31 09:01:00	10.437	2020-04-01 09:00:00	10.437	0
Feeder	2020-03-31 09:01:00	106.035	2020-04-01 09:00:00	254.853	148.818
Main	2020-03-31 09:01:00	8788500.000	2020-04-01 09:00:00	8896279.000	107779
Panel	2020-03-31 09:01:00	7830746.000	2020-04-01 09:00:00	7828621.000	27675
xDairy	2020-03-31 09:01:00	1479563.375	2020-04-01 09:00:00	1558303.375	78740
HT	2020-03-31 09:01:00	22.474	2020-04-01 09:00:00	22.474	0

Contact your scadabox dealer

Connect to Scadabox



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