Industrial DATA Logger 4.0

Overview

RDL data logger is a comprehensive real time industrial automation tool. The product is designed to seamlessly integrate with the IoT and Analytical processing systems. Supporting multiple I/O options, interfaces data logger is a perfect fit to build custom automation solutions. The state of art design incorporates carefully selected devices with minimum power requirements, stable operation in industrial environment and up to date feature set. The product architecture incorporates functionally partitioned across multiple controllers to ensure minimum down-time and interruptions on the production lines.

Features

Controller: STM32, 48Mhz, Flash 64KB, SRAM 8KB
Co controller: ATmega 2560, 16MHz, FLASH 256KB

Digital IO:
24v 8x Isolated digital input
24v 3x Isolated Digital output
AC Isolation: 3750VRMS
Contacts supported: DRY / WET

Analog IO:
8x ADC 0-10V/ 4-20mA max.
10 / 16 bit ADC offers high resolution

Wired Connectivity:
RS485 MODBUS, RS232 & USB
Isolated Ethernet 10/100Mbps, RDL Expansion Bus

Memory: FRAM 25KB, SD CARD 32GB

RTC: Built-in RTC for stamped data logging

Wireless connectivity:
Wi-Fi: 802.11 b/g/n/e/i (802.11n @ up to 150 Mbit/s), GSM/GPRS

Protocol:
TCP-IP, MODBUS RTU, MODBUS TCP, FTP, RESTFULL, JSON & MQTT

Security: SSL

Power supply: DC 9-24v

Enclouser:
• IP 20 • mounting: Wall / DIN Rail
• Dimension (LxWxH): 155x82x58.5

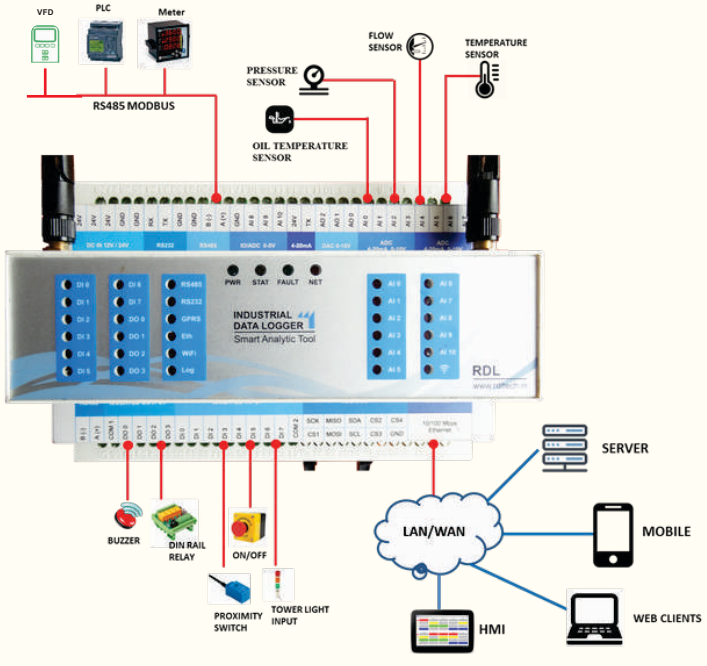
Operational Benefits

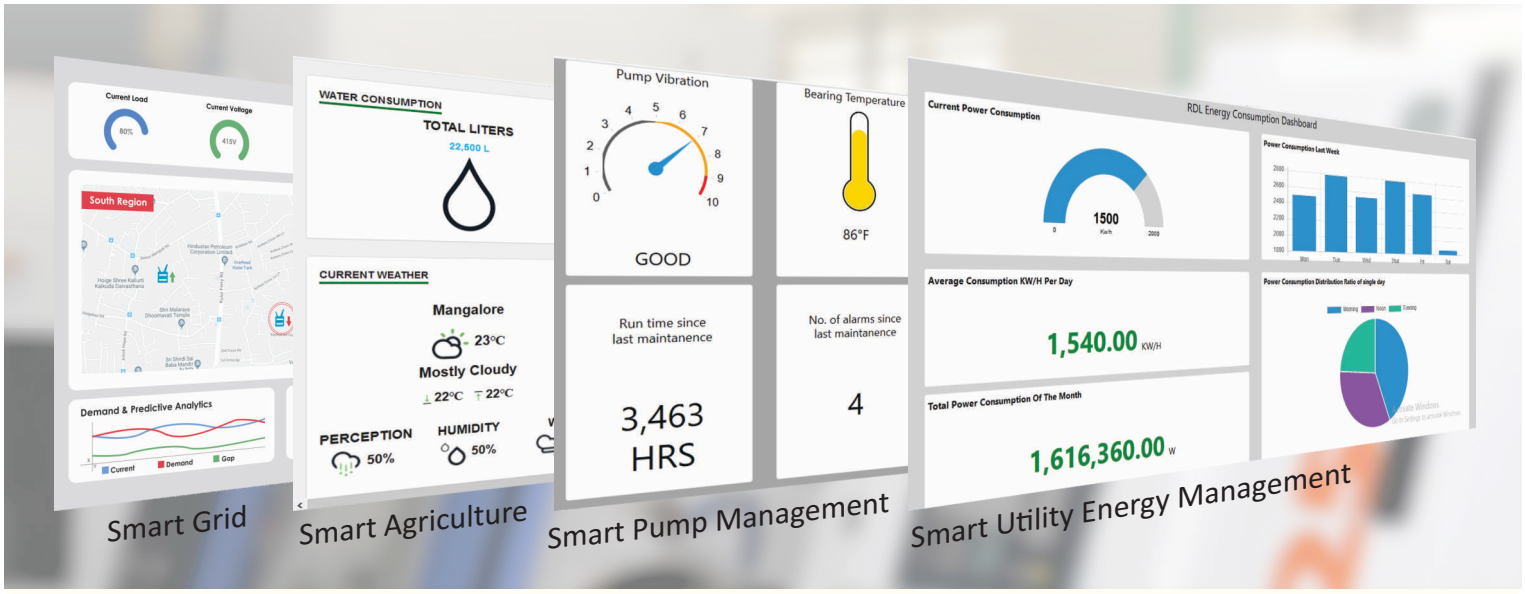
Industrial Data Logger 4.0 can used to build the custom industrial solution for monitoring and controlling PLC and SCADA, HMI, VFD Motors, servo, Valves, energy meter, actuators, relays, encoder, rfid and finger print readers, industrial sensors and many more with below mentioned operational benefits .

- Improved productivity & asset utilization.
- Reduced downtime.
- Performance Forecasting.
- Preventive maintenance.
- Paperless production environment.
- Production count, rejections.

Application

- Production and process monitoring.
- Utilities monitoring.
- Condition monitoring.
- Environment monitoring.
- Industrial Smart grid
- Cold storage monitoring.
- District metering.
- Water treatment.
- Generator monitoring.
- Green House.





Predictive Condition Monitoring System

Deep Analytics based system, provide insight into prevailing conditions on the Production Floor. Ingests and process data from multiple sensors to deliver actionable intelligent reports. Enable management of large work force with minimal Technical expertise.

Achieve higher productivity and utilization with Industry 4.0 features of Automated Machine Fault Altering system. Enabled with Preventive Analytics using Machine Learning reduces downtime and improves efficiency. Supports Industry Standard Interfaces sensors and interfaces, protocols. Alerts variety of devices and customizable dashboards

Order Information

Model	RDL7000	RDL7001	RDL7002	RDL7003	RDL7004	RDL7005	RDL7006	RDL7007	RDL7008	RDL7009
Digital Input(DI)	x	x	x	8	8	8	8	8	8	8
Digital Output(DO)	x	x	x	4	4	4	4	4	4	4
Analog 0-10v/4-20ma	x	x	x	x	x	x	8	8	8	8
GPRS	1	1	x	1	1	x	1	x	1	1
Ethernet 10/100mbps	x	1	1	x	1	1	1	1	x	1
Wi-Fi/Bluetooth	x	x	1	x	x	1	x	1	x	1
RS485	x	1	1	1	1	1	1	1	1	1
RS232	1	1	1	1	1	1	1	1	1	1
SD Card	1	1	1	1	1	1	1	1	1	1
RTC	1	1	1	1	1	1	1	1	1	1

We under take Design & Development (ODM & OEM Services) of Embedded Systems as per custom specifications

IoT | PLC/SCADA | Smart Grid | Lighting | Automotive | Solar | RFID & NFC | Industrial | Low Power | RF Wireless | Sensor | MEMS | Energy Harvesting | Robotics

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