

elecsys REDIGATE 400

Edge-of-Network Gateway

The RediGate 400 is a ruggedized field proven edge-of-network front end processor designed for industrial field applications. This single device enables a seamless migration path for quicker data acquisition, automatic communication failover, cyber security, bandwidth management, and protocol conversion throughout your entire industrial communication network.



Manufactured
in the USA

FEATURES



Reduce Data Latency

- Optimize Data Handling
- Report by Exception
- Publish and Subscribe



Standardize Field Integration

- Protocol Conversion
- Flexible Migration Path
- Scalability
- Flexible Migration Path



Enhance Communication Reliability

- Cyber Security
- Automatic Communications Failover
- Automatic Host Failover



Enterprise Integration

- Message Oriented Middleware (MOM)
- Supervisory Control and Data Acquisition (SCADA)
- Enterprise Resource Planning (ERP)
- Electronic Flow Measurement (EFM)
- BIG DATA Analytics

APPLICATIONS

- Edge-of-Network Gateway
- Automatic Communications Failover
- Protocol Converter
- Terminal Server/Serial to IP Converter
- Port Forwarding, Network Access Translation
- MQTT for Message Oriented Middleware
- Report-By-Exception, Publish/Subscribe, and Poll/Response
- Industrial Internet of Things
- Data Security and Encryption (TLS, SSH/SSL, VPN, Firewall, etc.)
- Remote Programmability and Configuration
- Data Logger

SPECIFICATIONS

MODEL	RG-400e-00-00
Operating Environment	Temperature: -40° C to +75° C Humidity: 0-95% non-condensing Hazardous: Class 1 Div 2
Power	Power Input: 9.5VDC - 28VDC (optional 120VAC power supply available) Power Consumption: 3.5W (w/o Expansion Options)
Size	H: 2.61" (66.3mm), W: 6.92" (175.8mm), L: 6.78" (172.2mm)
Inputs	Com Ports: 3 RS232, 1 RS485 Ethernet: 4 RJ-45 (10/100) Expansion Ports: 2 USB, 2 PC/104, SD Card Slot
Storage	64MB flash memory, 256MB dynamic RAM, removable SD memory card
Expansion Options	Serial Com Expansion (adds 3 RS-232, 1 RS-485 port) Digital/Analog I/O Exp 2 (adds 16 12-bit ADC inputs, 2 12-bit DAC outputs, 8 Dig. Inputs) Relay/Digital Input Expansion (adds 8 relays and 8 digital inputs) Cellular: CDMA or GSM/HSPA+
Host / IoT Software Solutions	Elecsys Connect, OPC Server, HCP2 (Modbus), Inductive Automation Ignition (MQTT), IBM Bluemix, Microsoft Azure, and many others

With a wide selection of industry standard and legacy protocols, the RediGate 400 can gather data from almost any field device and deliver it to your enterprise data systems. Combining our Advanced Configuration Environment (ACE) with one of the industry's best application programming languages (ISaGRAF), the RediGate 400 can be easily programmed for most applications.

The RediGate 400 has an optional integrated cellular modem and also supports I/O expansion options enabling the unit to be easily customized for your specific application. Utilizing its native MQTT client the RediGate 400 directly interfaces with messaging middleware/data brokers, new and legacy SCADA hosts, ERP systems, Leak Detection, Maintenance Systems and other enterprise applications. Elecsys also provides the "Elecsys HCP2" (host communication processor 2) or OPC software packages to enhance the performance and capabilities of your existing system.

MAJOR MARKETS



Oil



Gas



Electricity



Transportation



Agriculture



Water

