QEI
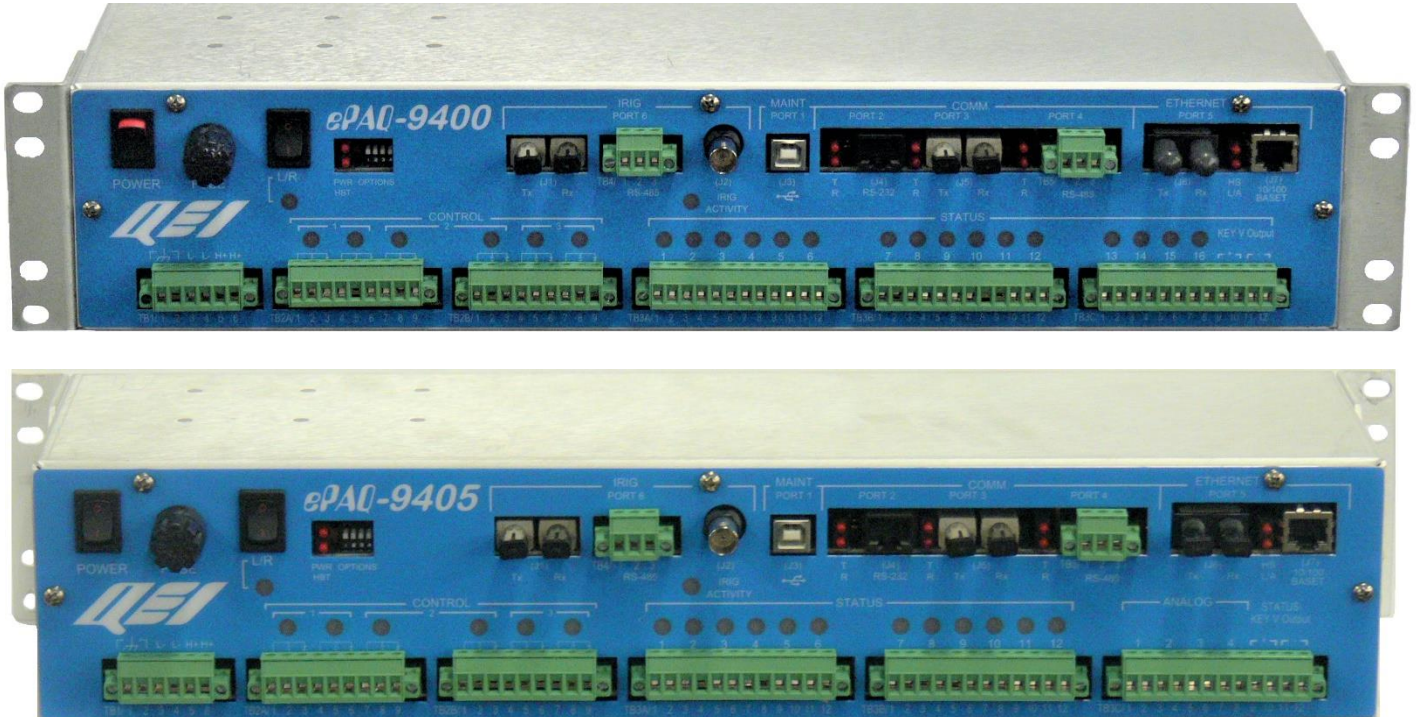
ePAQ-9400/9405 Multifunction Gateway

The Ideal Unit for Distributed I/O in the Substation or on the Distribution Feeder

The QEI ePAQ-9400/9405 is a gateway which can interface with hardwired status, analog, control and accumulator points, as well as IEDs within your substation, yet is compact and hardened enough to be used for distribution automation purposes inside and outside the substation fence.

With field proven protocols such as DNP3, Modbus, and Fastmeter, the ePAQ-9400/9405 can fit seamlessly into your existing SCADA system while providing reliable automation and new capabilities.

The ePAQ-9400 provides status, control and multiple IED gateway capability. The ePAQ-9405 option provides the addition of analog capability.

The ePAQ-9400/9405 is your substation Multifunction Gateway, Protocol Converter and RTU all in one.

- *Cabinet or Rack Mounted, 2U*

- *Field-proven Protocols*

- *Expandable with the ePAQ-9405 to include Transducer or Linepost Analog Inputs*

- *Configuration through ConfigWiz 2.0® Windows Software*

- *Closed Loop Control (CLC) Programmable*

- *Front Panel Connections and LED Indicators for easy installation and troubleshooting*

- *Copper and fiber interfaces*

- *IRIG-B interface for time stamping and SOEs*

SPECIFICATIONS

Control Outputs	3 control points (each with 2 momentary or 1 latching relay) Form C contacts, 10 amps @ 28 Vdc/120 Vac Optional momentary relays: Form A contacts, 10 amps @ 130 Vdc Highly secure select-before-operate (SBO) controls Internal log file of any failed controls and locally initiated controls
Status Inputs	16 contact inputs (configurable as pulse accumulators) optically isolated 1 msec Sequence-of-Events (SOE) time tagging 24 Vdc keying voltage generated by the ePAQ-9400/9405
Analog Inputs	4 analog inputs (with 12 status inputs) (ePAQ-9405) 0 ±1 mA dc, or 4-20 ma, 0-5 Vdc standard scaling 16 bits (15 bits + sign bit) 90dB common mode, 70 dB normal mode noise rejection

Communication Ports	Network: 10/100BaseTX, 100BaseFX Multi-Mode (ST Connectors)
	Serial: RS-232 (RJ45 Connector)
	            RS-485 (Terminal Block)
	            Multimode Fiber Optic (ST Connector)
	            Fiber, RS-485 and BNC IRIG-B input for internal clock synchronization
	USB Port for local laptop/PC configuration

Programmable Logic	Closed loop control capability through the included "Programmable Communication and Control Logic" (PLCC) module with intuitive Microsoft® Excel programming interface.
Server Protocols	DNP3 (serial and over IP with secure authentication), Modbus (RTU and TCP), and QUICS (serial and over IP). Maximum of three (3) server protocols.
Client Protocols	DNP3 (serial and over IP with secure authentication), Modbus (RTU and TCP), SEL Fastmeter/ASCII with device discovery, and PLCC. Maximum of five (5) client protocols.
LED Indicators	16 status input indications 6 control relay state indications Serial, Ethernet & IRIG-B port activity indications Local control disable switch indication Power On/Off indication
Physical	3.5"H x 17"W x 5"D metal enclosure, surface/19" Rack/DIN Rail mounting
Environment	-40° to +85°C, (-40° to 185°F) 0-95% humidity (non-condensing)

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ISO 9001
CERTIFIED