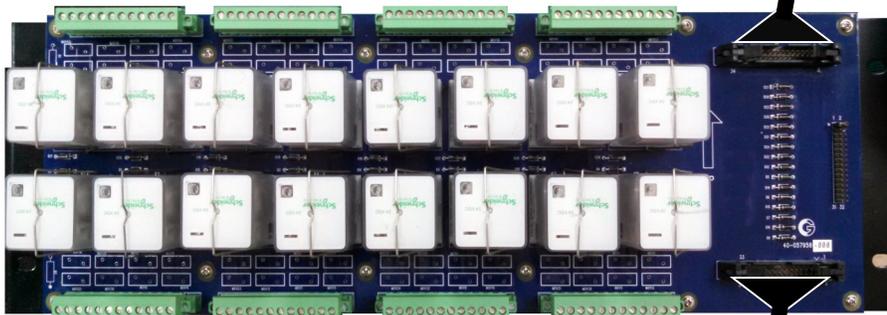


ePAQ Series Control Output



COM-9460
Control Output Module



ROP-9470 Relay
Output Assembly
(as needed)

Cable Expansion to Desired I/O Capacity

19" Rack Mounted Configuration

Each Relay Output Assembly (ROP) Contains 16 (KUP) Relays (8 trip close pairs) or 8 Magnetically Latching (KUL) Relays

Output Connections: 5 mm Terminal Blocks (#12 AWG)

Expansion of up to 16 ROP-9470 Panels (128 Control Points) per each COM-9460 Board. (for up to 32,768 Control Points)

Communications: Each COM-9460 has Two Four-wire RS 422 Communication Lines. (for Data Pass-through or Redundancy)

COM Units May be Configured in a Redundant Architecture for Automatic Failover

The COM-9460 Control Output Module (COM) and accompanying ROP-9470 Relay Assemblies are accessory panels for ePAQ-94XX Multifunction Gateway products used within the automated substation. They enable the ePAQ Gateway to supply expansion control output relay points for your enterprise SCADA system.

Each ROP unit provides 16 control relays, supplying 8 momentary trip/close or 8 magnetically latched control points. Additional ROP-9470 units may be added up to the COM-9460 capacity of 128 points. Further expansion capacity is then available through additional COM-9460 modules.

COM-9460 units are mounted in a 3.5" X 19" circuit board assembly and connected to the ePAQ gateway via RS-422 lines. One or more ROP-9470 units are connected via ribbon cables to their controlling COM-9460 Module

Each COM-9460 module includes front panel LEDs to provide a local indication of communications activity (TX/RX), as well as power and microprocessor "heartbeat". This provides for quick diagnostics and easier maintenance.

SPECIFICATIONS

Control Outputs	Each COM-9460 controls one or more ROP-9470 Relay Output Assemblies. Each ROP-9470 contains 16 control relays (8 momentary control points) or 8 magnetically latching relays. Up to 256 COM-9460 units may be present each controlling up to 16 ROP-9470s for up to 32,768 control points.
Relay Types	TYCO/P&B type KUP, KUEP, KUL and equivalents
Placement	COM-9460 units may be “stacked” at one location or distributed via RS-422 links to where control outputs are required.
Isolation:	Inputs are isolated from logic circuits using optical isolation and DC-D.C. converters. Minimum 2KV RMS (analog input to logic isolation) SWC/fast transient - IEEE C. 37.90.1, IEEE Standard 1613-2009 Power line surge - IEC 1000-4-2 Electromagnetic emissions - FCC part 15, class B Electromagnetic compatibility - EN 61000-4-3 Dielectric rating - 1000 Vdc, on all inputs Overload rating 500 Vdc (common mode to ground)
Configuration	The operating firmware of the COM-9460 may be field configured via the RS-422 line from the master ePAQ substation gateway. (thus eliminating site visits for firmware changes and updates)
Ports	Two, four wire RS-422 ports for serial communications with ePAQ substation multifunction gateway. Second RS-422 ports will allow multiple COM-9460s to be linked together in parallel or to allow COM-9460s to share the same RS-422 channel to the ePAQ gateway.
Baud Rate:	RS-422 links from ePAQ Substation Gateway to each COM-9460 operates at up to 4 Mbps
Input Power:	24 VDC +/- 20 percent Power is via the ePAQ Substation Gateway RS-422 line, thus eliminating the need for separate power cabling.
LED Indicators	Three LED front panel indicators to monitor power, communications, central processor health and the local/remote status. Each control point has an LED to show when relay the coil is energized.
Physical:	-40 to +75 degrees centigrade, 0 to 95% humidity (non-condensing) Width - 18.87” Height - 3.5” (COM-9460) Height - 7.00” (ROP-9470)

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