MicroPAQ-940S Status Input Module

Status Expansion for MicroPAQ-940P and ePAQ-9410/20

The MicroPAQ-940S is a microprocessor-controlled expansion module for the MicroPAQ-940P and ePAQ-9410/20, providing sixteen additional digital inputs (status points).

The sixteen status points are arranged as four groups of four points each. Each group of four can be configured for either positive or negative keying. All status points are optically isolated, and transient protected.

Each MicroPAQ-940S module includes an RS-422 port for communications with the MicroPAQ-940P Main Processor Module. The RS-422 port uses two RJ45 connectors, allowing multiple -940S modules to be daisy chained together.

A bank of 8 dip switches on each module allows for addressing of up to 256 modules, for a total capacity of up to 4096 status points (256 x 16). LED indicators are included for status point "on" indications, unit diagnostics, and RS-422 communications.

- *Din rail or panel mountable*

- *16 Status Inputs per MicroPAQ-940S*

- *Wetting Polarity: Positive or negative keying accepted*

- *Status Connections: 5 mm plug-in Terminal Blocks (#12 AWG)*

- *Expansion of up to 4,096 status inputs (256 MicroPAQ-940S units)*

- *Communications: Each MicroPAQ-940S has RS 422 communication lines. (for communication with MicroPAQ-940P or ePAQ-9410/20)*

- *Input Voltage: 24 VDC Nominal*

SPECIFICATIONS

Status Inputs	16 status inputs per MicroPAQ-940S, 4 mA per status point (configurable as pulse accumulators) Maximum expansion is 256 MicroPAQ-940S Units (4,096 status inputs)
Scan Rate	1 msec per point. Sequence-of-Events (SOE) capability available (SCADA protocol dependent)
Filtering	Debounce filtering provided within firmware
Isolation	Inputs are isolated from logic circuits using optical -couplers and DC-DC Converters Minimum 5KV RMS (status 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 – ED 61000-4-3 Dielectric rating – 1000 Vdc, on all inputs Overload rating 500 Vdc (common mode to ground)
Configuration	Configured via MicroPAQ-940P or ePAQ-9410/20
Baud Rate	115.2 kbit
Ports	RS-422 Port (non-isolated). Two 8-pin RJ45 jacks in parallel provided for daisy-chaining multiple I/O modules. Baud rate is 115.2kbit. Plug-in jumpers J3 (TX) and J4 (RX) provide 120 ohm termination resistors as Necessary (jumper IN=termination provided).
Power	24 Vdc nominal The MicroPAQ-940P can power a single MicroPAQ-940S Module without the need for an external power supply For powering one or more modules, the MicroPAQ-940S can accept an isolated +24Vdc input nominal.
LED Indicators	LED front panel indicators to monitor local power supply voltage, communications and central processor health One LED is also provided to indicate status of each status input
Physical	5.45"H X 4.13 "W X 2.5"D
Environment	-40° to +85°C, (-40° to 175°F) 0-95% humidity (non-condensing)