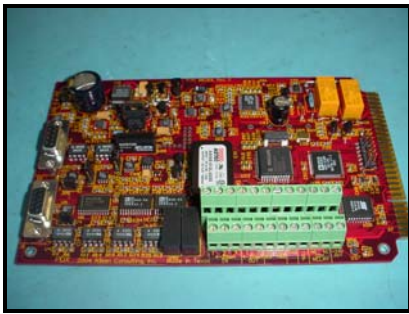


RTI Gauge Interface Card

Data Acquisition & Control System



RTI Interface Card

⊗ Operating Information ⊗

- Powers from 10-36VDC
- < 5W Consumption
- -20 °C to 75 °C Operation

⊗ Gauges Supported ⊗

- SmartLog
- ROC-A
- ROC-D
- ROC-S

⊗ Communication Ports ⊗

- 1 x RS-232 (Configuration port)
- 1 x RS-485 or 232 (jumper)

⊗ Port Usage Options ⊗

- 1 RS-232 dedicated to RTI PC pgm
- ModBus RTU
- Modem Support (Radio/Cell)
- Simple LCD

⊗ Inputs ⊗

- Three 4-20mA inputs (16-bit A/D)

⊗ Outputs ⊗

- Two 4-20mA outputs (16-bit D/A)

⊗ Memory (optional) ⊗

- 4MB Flash + RT Clock

⊗ Enclosure ⊗

- None supplied

⊗ Physical Dimensions ⊗

- Weight - half pound.
- 7.5" w x 4.5" d x 1.25" h

RTI Interface Card

The RTI Interface card was designed to support a maximum of four simultaneously addressable gauges. It powers from an external DC source which can be unregulated or poorly regulated. The RTI card in turn powers the gauge(s) via a single TEC wire for reception of Pressure and Temperature measurements.

DSP Technology

The RTI Card uses an advanced Digital Signal Processor (DSP) which enables tight filtering and reduction of noise during gauge transmissions. This can significantly increase decode-ability in noisy pump installations.

Analog Outputs

The RTI is equipped with two channels of 4-20mA outputs (16bit). Select a gauge's pressure or temperature, the span and offset, and the PDX will drive the translated value onto an output as it is decoded from downhole.

Analog Inputs

The RTI is equipped with three channels of 4-20mA inputs (16bit). Connect surface transducers and the RTI will measure, scale, display, and log (optional) the data to memory.

ModBus

The PDX supports the RTU protocol of the ModBus standard, and this may be accomplished via the RTI's RS-485/232 port. This interface is fully configurable (parity, baudrate, etc.). As a slave device, RTI decoded data from the gauges (i.e. Pressure and Temperature) can be polled.

Modem Support

The RTI supports modem communications via the RS-232 port. A User may dial into the unit using the supplied PC Program, or the port can be used to talk ModBus over a radio-modem, cellular-modem, or regular modem.

Memory Logging (optional)

The RTI Card can be ordered with an optional 4MB memory card with a battery-backed Real-Time Clock for logging of data. This data is retrievable via the supplied PC Program and RS-232 port. The 4MB can hold 18 months of Pressure/Temperature data when logging at a 1-minute update rate.

RTI PC Program

The RTI Card comes with a PC Program that runs under Windows 95/98/ME/NT4.0/2000/XP.

Installed from the internet, it communicates with the RTI via a dedicated RS-232 port. The program allows full configuration of the unit, as well as, data memory retrieval, and real-time logging of data to PC hard disk.

Have a special application?

Call today!

