Controls, L.P.
Sold with Integrity. Built for Reliability.

eRCM Express™   Real-Time Reciprocating Gas Compressor Modeling

S&R Controls LP is an approved ACI Services system integrator for the eRCM Express™

The eRCM Express™ is in an integrated, real-time, variable measurement, monitoring system for reciprocating compressor modeling (RCM) technology. Real-time live data is fed from the unit control panel PLC to the eRCM Express. The eRCM model returns real-time gas compressor performance and safety prediction outputs.

ADVANTAGES

- **Allow reciprocating compressor to achieve full performance**

- **Removes operation map constraints**

- **Calculates full rod loads and pin reversals per throw**

- **Predicts safe performance across unit's full operation map**

- **Optimizes capacity and reduces cost**

- **Provides OEM approved compatible modeling**

- **Helps prevent continued operations in high mechanical stress.**

FEATURES

- **Industrial Computer running eRCM Modeling Software**

- **Rated for installation inside the compressor unit control panel in Class 1, Division 2 areas**

- **Modbus/TCP Ethernet communications integrated with the PLC**

- **Utilize single-stage and multi-stage compressor models interchangeability**

*Image provided by: ACI Services Inc.

S&R Controls LP is a control panel integrator with expertise in designing and building unit control panels for various markets, including gas compressor stations. For a competitive quote, contact S&R Controls LP at:

S&R Controls LP
sales@panelsbysr.com
972-271-5203
www.PanelsbySR.com

ACI Services, Inc.

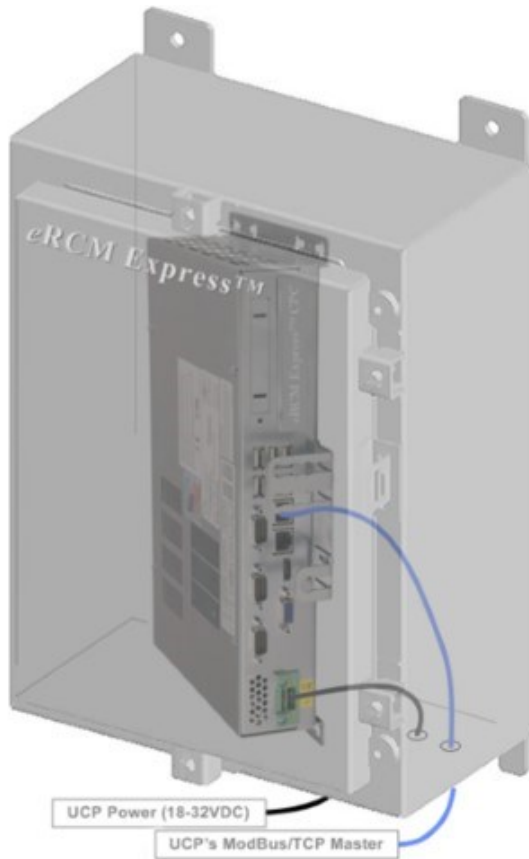**RECOMMENDED SYSTEM INTEGRATOR**

ABOUT S&R Controls LP

S&R Controls designs, builds, and programs custom control panels. S&R control panels are used in various industries including Gas Compression. S&R controls can integrate the eRCM express into a new compressor station or into an existing system. S&R Controls preforms factory acceptance testing, at our facilities, on all control panels; including site acceptance test and site commissioning.

S&R Controls supplied and integrates PLC's fromAllen Bradley, Siemens, GE, Modicon, Red Lion, Opto22, and Crouzet. S&R control panels can be certified to UL 508A, CSA, hazardous locations for Class 1, Division 1 and 2, ATEX Ex and IEC Ex.

eRCM Express™   Equipment Details

⇒ Integrated inside the compressor station unit control panel.

⇒ 24VDC Power removes the need for Arc Flash Requirements.

⇒ Modbus/TCP industrial Ethernet communications.

⇒ The PLC sends the following real-time data to the eRCM Express:
- Suction Pressure
- Discharge Pressure
- Speed
- Suction Temperature (per stage)
- Current Load Step

⇒ The eRCM sends the following real-time results to the PLC:
- Load Step Errors (Safety limits exceeded, per load step)
- Predicted Load BHP (per load step)
- Predicted Compressor Flow (per load step)
- Performance data per stage
- Performance data, including Rod Loads, per throw
- Next recommended load step up
- Next recommended load step down
- Minimum safe speed at current load step and conditions
- Maximum safe speed at current load step and conditions
- Minimum safe suction pressure at current load step and conditions
- Maximum safe suction pressure at current load step and conditions
- Isentropic Efficiency at current operating point

Sign-Up for S&R Newsletter

See our website for more information about S&R controls and our services

http://www.PanelsbySR.com
972-271-5203
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*Note: eRCM Express is a trademark of ACI Services Inc. and not manufactured by S&R Controls LP. S&R Controls is a recommended integrator for the eRCm Express.