



MICROTEX ELECTRONICS, INC.

EVVAC 5000

Automatic Well Production/Automation System

EVVAC - Electronic Variable Viscosity Automatic Controller



EVVAC 5000 Specifications

- Industrial Temperature Grade -40° to $+85^{\circ}$ C *operates even the most rugged environments*
- Sea Level to 15,000 foot operation
- NEMA4 Sealed Environmental enclosure
- 50,000 hour – 100% duty cycle life expectancy
- 24 Hour Battery backup Power Supply operates the control even during power loss
- Self-regulated power system, Impervious to power fluctuations.
- 6-24 VDC or VAC operation at 1A Maximum
- Optional Remote Control Subsystem API
- Built-in ISM Band spread spectrum data radio capable of 10-mile range, networkable to other well units.
- * Satellite Modem Ready, either I-Direct High Orbit satellite or Orbcomm Low Orbit satellite
- Custom Supervisor OS
- Multi- I/O command system, UNIX-Type interface command structure
- Password Security with lockout
- Patent Pending Intelligent Real Time Pump Stroke Control Algorithm
- Alert Reaction Sensor Monitoring Algorithms
- Optional interfaces available upon request

EVVAC 5000 Features

- Remote ON/OFF Control / Programming
- Patent Pending proprietary well control algorithm
- Automatic Intelligent Pumping mode monitors the well and all parameters in real-time and responds to conditions in real-time
- Variable speed drive eliminates the need to change counterweights and balances on pumpjacks reducing labor costs
- Well can shut down automatically if there is any problem encountered in the pumping process, including rod damage (pumpoff)
- Settable minimum and maximum levels keep well operational, even during extreme conditions
- Real-Time Clock monitors events in real-time
- Tamper detection and remote monitoring
- Over and under pressure detection and control parameters
- Power loss detection
- Motor Current and motor temperature monitoring
- System current power draw and power management
- Data Logging and Data Upload/Download of well performance data
- Password security
- Self-monitoring well status
- * Tank fluid level monitoring
- * Casing pressure monitoring
- * Natural Gas metering and monitoring
- * Oil storage tank fluid level monitoring
- * Salt Water storage tank fluid monitoring
- * High/Low pressure shutoff valves for hydraulic systems
- * Produced Well fluid volumes, both oil and water volumes
- * H2S sensing and monitoring
- * Alarms for Gaslock or Fire conditions
- (* = Optional)

For More Information:

Microtex Electronics, INC.
2929 N. Central Expressway, Suite 250
Richardson, TX 75080 U.S.A
www.microtexelectronics.com
TEL: (972) 479-1011
FAX: (972) 479-1015

Proudly Made in the USA



©2006 Microtex Electronics, Inc.. All information, specifications, and descriptions contained herein are subject to change without prior notice.



MICROTEX ELECTRONICS, INC.

EVVAC 5000

Automatic Well Production/Automation System

EVVAC – Electronic Variable Viscosity Automatic Controller

Processor:

Single Processor Environment > 5+ MIPS of processing Power, Real-Time Supported, Multi tasking kernel Runs multiple tasks without task droppage

I/O Capabilities:

Digital I/O – The EVVAC 5000 has 8 bits of user-configurable I/O and 8 independent control lines which are keypad supportable. These can be set to input or output, keyboard, or both. 24mA Drive.

Analog I/O – The EVVAC 5000 has 1 channels of 13-bit Analog, and seven channels of 10 bit Analog inputs. These are signal conditioned for Direct Sensor Inputs. Also included is four channels of digital to analog I/O

Port I/O – All port I/O are useable via separate connector

Power I/O – The Pulsar-PIC has two channels of PWM capable 1Amp MOSFET driven connections.

Serial – The EVVAC 5000 has two full Hardware UARTS. Both RS232 and RS485 Switchable

Indicators– The EVVAC 5000 has an 8 LED light bar and 4 independent Led Outputs. Also, it supports a 2-line LCD display.

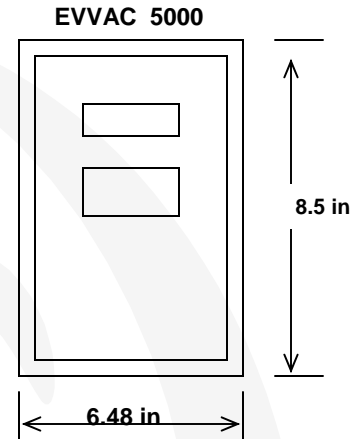
ETC:

Real Time – The EVVAC 5000 has a real-time clock, Wireless or Satellite Interface

Buttons – The EVVAC 5000 has an optional 4-button control interface.

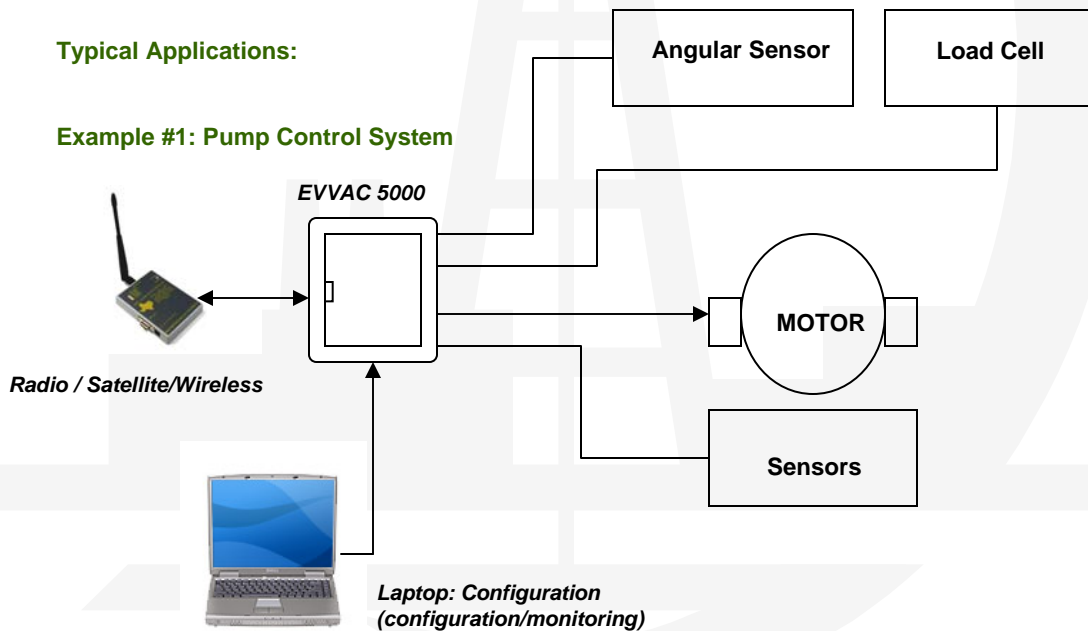
Regulator – The Pulsar-PIC has on-board regulation. In addition to being non-volatile, it is also filters unwanted power fluctuations and is immune to radiated noise.

Hardware Features



Typical Applications:

Example #1: Pump Control System



For More Information:

Microtex Electronics, INC.
2929 N. Central Expressway, Suite 250
Richardson, TX 75080 U.S.A
www.microtexelectronics.com
TEL: (972) 479-1011
FAX: (972) 479-1015

MICROTEX ELECTRONICS OFFERS A ONE-YEAR LIMITED WARRANTY ON ANY FASTREADER PRODUCT. WE ALSO OFFER MAINTENANCE PLANS AND SERVICE WHAT WE BUILD.

Proudly Made in the USA

