



EAGLE RESEARCH CORPORATION

PRODUCT INFORMATION

VOLUME CORRECTOR



XARTU/1™ - VC - LDVI™

Eagle Research has returned to the Electronic Volume Corrector marketplace. Based on the proven XARTU/1 SBC61 circuit board that has been the heart of the Eagle XA /1 series product line, an optional Low Drag Vertical Index (LDVI™) provides the user with a low cost mechanical backup to the electronic device. The VC-LDVI includes an internal pressure transducer, external display and 2400 bps modem in the standard product offering. The VC-LDVI contains a full compliment of standard Eagle Research processes, including AGA 7 and AGA 8 (Detail and Gross Method 1 & 2) computational functionality. Additional features include complete communications functionality with popular analyzers for energy monitoring requirements. The VC-LDVI is a fully functional flow computer capable of Alarm Call-out, Control, and a variety of other process related activities. Although the VC-LDVI includes a 2400 bps modem as standard, the unit may be interfaced to a wide variety of other communications devices such as Radio, Cellular, Microburst™, and Satellite modems. Clockwise and counterclockwise meter rotations are handled by a simple reversal of the index in the housing. Eagle Research has been serving the needs and requirements of the Natural Gas Industry for the past 25 years with a full range of products.

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XARTU/1™ – VC – LDVI™

Features and Basic Specifications

Features	Description
Input Power	7-30 VDC. Two battery inputs with MTA connectors. One power supply/rechargeable battery input with screw terminals. One solar power input with screw terminals.
Power Consumption	5 AH battery, 2-hr charging per day @ 50 mA charge rate less than 2 mA average current. Less than 100 uA sleep current.
Backup Battery	3.6 VDC lithium backup battery: 10 years typical backup of database and time/date during normal use.
Processor	Phillips P51XAS3 high performance 16-bit microcontroller running at 22.1184 MHz
Memory	512K x 8 remotely-programmable FLASH program memory 512K x 8 battery-backed RAM data memory
Real-time Clock	Battery-backed, quartz crystal controlled; +/- 1 sec/day typical accuracy; Programmable time scheduled interrupt capability
Internal Inputs	One ambient temperature input; one supply voltage input
Pulse Inputs	Four pulse inputs, software programmable for Form A or C; high or low speed.
Digital I/O's	Five multi-purpose, memory-mapped digital i/o lines.
Analog Inputs	Six general-purpose analog inputs, 12-bit resolution, analog sampling, software Calibration. Nominal input ranges 0-5.12 VDC. A 250 ohm resistor in socket allows 4-20 mA or 0-5 VDC input for each channel.
RTD Inputs	Two 12-bit resolution RTD inputs; 3-wire lead compensated with ground shield Connection; four screw terminals per input
Communications	One modem port with extension off-hook detection. Speed up to 2400 baud. One RS-232 ports with RX, TX, RTS, CTS, and communication switch signals. Configurable speed up to 115,200 baud.
Status LED	One software-controllable LED for various function indications
Expansion Capability	Additional connectors provide redundant termination points to allow for configuration flexibility. Optional isolated analog output modules, serial ports and digital I/O available.
Warranty	Four years on all Eagle Research manufactured components.

Transducers/Sensors Accuracy Specifications

Pressure Transducer	Specifications: PDF available at www.eagleresearchcorp.com
Opt. RTD Sensor	±1°F



The Talon series of products has been designed as a Windows® based setup, configuration, device management, and polling tool for the Eagle Research family of products.

Based on a Windows® Explorer style format, device configuration and management takes on a 21st Century look and feel using the Talon product.

Talon SCADA is suitable for larger applications, polling multiple devices over several Communications ports.

Talon Software

**Windows® based.....
Customer driven.**

Your Eagle Research Sales representative is available to answer any questions you may have regarding the Talon Family of products.