XARTU/1™
Volume Accumulator

The **XARTU/1™**-VA Volume Accumulator offers advantages to an LDC's transportation customer's volumes, such as:

- Accepts high or low frequency pulses
- Two-way calling using shared phone line
- Off-hook detection on shared lines prevents interruption during an emergency situation
- Fixed factor measurement
- Up to four meters connected simultaneously
- Up to three Form-C outputs configurable to corrected or uncorrected volume to energy management systems
- Wall, Pipe Mount or LDVI for mounting

Technical Specifications

- **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. (10 Watt Maximum Panel Size)
- **Power Monitoring:** Supply voltage monitoring through A/D with low supply voltage alarming
- **Backup Battery:** 3.6 VDC lithium backup battery of database, history, audit trail, time/date, RAM memory
- **Memory:** Store up to 32,000 Time Stamped Records with programmable FLASH program memory and battery-backed RAM data memory
- **Communications:** Available On-Board Dial-up Modem port with extension off-hook detection. Two RS-232 ports with RX, TX, RTS, CTS, and communication switch signals. Up to 4 Expansion Comm Ports (RS-232/485). Configurable speed up to 115,200 baud. Directly interfaces to Cell Modems (TCP/IP), Radios, Satellite, etc. Communication protocols selectable on a per port basis: Eagle HexASCII, Modbus, Teledyne/Geotech, or Valmet

Inputs / Outputs (I/O) Available

- **Internal Inputs:** One supply voltage input
- **Pulse Inputs:** Four pulse inputs, software programmable for Form A or C; high or low speed. Each counter is a six-digit (0-999999) hardware counter with programmable interrupt support.
- **Digital I/Os:** Five multi-purpose, memory-mapped digital I/O lines. High-level functionality including pulse inputs, PWM (pulse width modulation) outputs, and complex custom inputs/outputs. Two I/O lines are connected to field terminals through standard OPTO modules. The other 3 I/O lines can be used as either Form C or A relay outputs (solid state 100 mA max AC/DC) or status inputs (50 V max. DC only).
- **Expansion Capability:** Additional connectors provide redundant termination points to allow for configuration flexibility. Two 10-position connectors allow for expansion over the I^2C communication bus.
- **Warranty:** Four Years on all Eagle Research manufactured components

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