

# XARTU/1™ VOLUME ACCUMULATOR

For managing customer gas volumes, the XARTU/1™-VA Volume Accumulator offers the following advantages to a Local Distribution Company.

- 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 for 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 or Modbus

## Inputs / Outputs (I/O) Available:

- 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. Each counter is a six-digit (0-999999) hardware counter with programmable interrupt support. Can be used for simple pulse accumulation, and for more complex applications such as card readers.
- 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).
- Warranty: Four Years on all Eagle Research manufactured components