METROLOGICS, LLC

Technology
Consulting
Projects
Products

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Cellular RTU
MCAM-CG

*Final Product may differ from artwork.

The Metrologics MCAM-CG product is designed for alarm monitoring of process signals and provides local data logging and storage of all parameters. Alarm thresholds are programmed for report by exception notifications to cell phones via text messaging, and/or email addresses. The MCAM-CG product comes in several different I/O configurations, can be integrated into your system enclosure, or is available in a pre-packaged enclosure for easy field deployment.

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Main Features

- Battery Powered Mini RTU/Data Logger/Alarm Monitor/Ethernet Gateway
- 32Mb on-board FLASH memory for data logging
- Solar charging system available
- On-board I/O
  - 2-AI, 4-20 mA or 0-5 VDC, strap selectable
  - 4-DI, Dry contact (can be used for frequency measurement or pulse counting)
  - 2-DO, VBatt (requires external relays for load switching of >1A)
  - 1-RS485, Half duplex, Modbus RTU Master Comm Port
    - o Connect up to 31 Slave devices (I/O Modules, Flow Computers, Annunciators, Level Controls, PLC, etc.)
  - 1-RS232 Comm Port (Programming or Modbus RTU Slave)
  - Mini USB Port – for programming
  - Dedicated LCD/HMI Connector for optional local user display
  - Ethernet port (connect to IP camera, router/switch, PLC, etc.)

Options

- Removable SD Memory Card option (2-32 GB)
  - Data Logging, local logs for Tag data, Events, and Alarms, exportable to CSV or Excel formatted files.
- LCD, for local readout of system status, and all measured parameters (including Modbus slave device registers)
- Touchscreen HMI, 3.5", customized for user application
- External Modbus RTU I/O modules (wired or wireless)
- Internal Cellular Gateway
  - Call-outs on RBE Alarms from physical inputs or Modbus register thresholds for HH, H, Normal, L, LL values.
  - Delivers SMS alarm messages to multiple mobile devices (multiple cell numbers)
  - Delivers email alarm messages to multiple email accounts
  - Optional External GPS Antenna for asset tracking
  - WiFi option
- DIN-rail mounted SPDT Relays (trigger-able on any alarm condition) *for shutdowns*.

Uses: Alarm monitoring/data logging for: *Wellheads, Tank Levels, Flow computers, Compressors, Pumps, PLC's, Generators, etc.*