CANARY DA3®

Canary DA3 is a data logger gateway, designed to acquire, process and communicate energy and environmental data. The system contains an embedded computer, communications and data acquisition hardware.

Description

Canary DA3 is a data acquisition gateway designed to acquire, process and communicate energy and environmental data in the most reliable manner. Canary DA3 can acquire data from MODBUS RTU slave devices. It can also obtain analog meter signals and control external electrical loads through its add-on modules.

The system is designed to be extremely reliable with enough memory to store well over 30 days of data, should communications to data be interrupted.

Canary DA3 runs ResourceKraft's own RKDAP software and it designed to operate with the ResourceKraft Advisor Energy Analytics software.

(See ResourceKraft Advisor Energy Analytics Datasheet for more information)

Specifications

- 1GHz ARM processor with 512MB DDR3 RAM, eMMC on-board flash, USB Host
- USB Client for communications
- 802.11b/g/n and Bluetooth 4.1 plus BLE
- Optional interfaces:
- 8/16/32 dry contact pulses (IEC62053- 31) for meter reading
- Analog Inputs 4-20mA, 0-10V D
- Digital outputs for remote load
- control
- RS-485 for MODBUS RTU slave
- interrogation and control
- RS-232 (on request)
- Input power supply 5vdc
- Optional GPRS/3G/4G Modem Five Bands UMTS (WCDMA/FDD)
- Bands: 800, 850, 900, 1900 and 2100 MHz
- EDGE/GPRS Class 12
- CE compliant

Features & Benefits

- Can interface with energy meters and environmental sensors
- Communication via Ethernet port or GPRS/UMTS network
- Independent of existing IP Networks
- Capable of supporting custom software applications
- Compatible with a range of external antennas
- DC supply
- High reliability with integrated hardware watch-dog-hundreds of thousands deployed worldwide
- DIN-rail and wall mounting options

Metering Equipment Compatibility

- Supports all energy and fuel meters with dry contact pulse outputs (IEC 62053-31), energy and environmental sensors 4-20mA or 0-10v outputs.
- Support for a range of popular MODBUS RTU slave devices is embedded in firmware – ask for details.
- Gas meters - a separate opto-isolation device is also required in some cases.

For more information

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