CAS DATALOGGERS

Wireless RTU Packages Control & Communications Capabilities

Innovative Full-Featured Monitoring Solution from Infinite

Do you need a full-featured remote monitoring device for environmental or industrial measurement? CAS DataLoggers introduces the **Infinite BSC-50E**, an ultra-low power, wireless RTU with extensive data logging and alarming capabilities. Equipped with a built-in GSM/GPRS modem and featuring extensive control and communications capabilities, this RTU device is ideal for monitoring applications requiring advanced functionality.

Features:

- 4 Digital or 2 digital/2 analog inputs
- Battery life up to 10 years
- External sensor excitation
- SMS Messaging
- Optional IP67 enclosure

The Infinite BSC-50E battery-powered RTU incorporates a quad-band GSM/GPRS modem, four digital inputs, two analog inputs, one pulse counter input, and multiple excitation options for powering transducers. For extended operation, the RTU's Lithium Thionyl battery provides autonomous operation for over 10 years.

Applications include:

- Water Resources Management
- Weather Conditions Monitoring
- Power Grid
- Gas Distribution
- Environmental Monitoring
- Telecom & IT
- Tank Level Measurement

Sophisticated Design:

The BSC-50E utilizes a dual-processor architecture in order to combine extreme low-power consumption with advanced processing and communication capabilities. A

system controller (ultra-low power MCU) performs measurement, data logging and alarm condition detection in continuous operation.

A powerful communication processor, switched on and off by the system controller, performs data processing and controls communications through the internal wireless modem. The result is up to 50% power saving comparatively to respective units on the market, all while performing the same tasks.

Modes of Operation:

Modes of operation include autonomous battery operation and 9 to 24V external power supply operation with uninterruptible transition to battery operation during power outage.

Measurements & Data Logging:

The device's digital inputs are scanned in closed loop by the system controller for detecting an alarm condition. Analog input scaling and alarm limits are user-definable. Likewise the analog inputs are sampled according to the user-defined sampling rate. Sampling rate and sampling duration affect the battery life according to the transducer power supply requirements.

Alerting & Messaging:

SMS announcements include alert messages and periodic status messages for verifying unit availability. The unit supports discrete alerting for several users. Message texts are user- definable.

Setup and Remote Configuration:

The Infinite BSC-50E can be programmed either locally through the serial port or remotely via SMS by using simple ASCII configuration commands. The command set features commands for configuring input alarm parameters, scaling parameters and alarm limits, timing parameters, and defining user groups.

The BSC-50E can be remotely reconfigured by sending configuration commands via SMS to the unit during the periodic status message processing. For long-term monitoring applications, the system's operation is estimated for over 10 years.

To learn more about **Infinite Wireless RTUs**, or to find the ideal solution for your application-specific needs, contact a **CAS DataLoggers Application Specialist** at **(800) 956-4437** or visit our website at **www.DataLoggerInc.com**.