



# DIGI STAT™

The Microtel DigiStat™ provides the benefits of direct, low-cost wireless notification. This digital cellular notification system allows you to receive time-stamped sensor, equipment, power-fail, low-battery and temperature alerts via digital cellular networks, with optional NO MONTHLY CONTRACTS. DigiStat™ monitors dry-contact and 4-20 mA inputs, AC power, battery voltage and temperature. Very low-power consumption allowing for battery only operation for years, enabling installations where ac power is not available (ie.. Manholes). It communicates directly with user's mobile phones via SMS text messages, as well as with Microtel's Log-Stat™ web interface and via email.



Manhole Cover Bracket, NEMA 4X Enclosure, Float Switch and Hi Gain Antenna

## FEATURES

- **Monitors Two (2) External Inputs**

Configure either two (2) optically isolated dry contacts, or one (1) dry contact and (1) 4-20 input. Alerts transmitted for each state change.

- **Includes Built-in AC Power, Battery Voltage, and Temperature Monitoring**

- **Provides Several Notification Options**

Alarm notifications can be directed to up to three (3) user mobile phones via SMS text message, to Microtel's Log-Stat™ web interface, and up to five (5) email addresses.

- **Optional: Time-stamped events logged to Microtel's Log-Stat™ Web Application**

Unlimited time-stamped events stored for later retrieval; controls to export or print data.

- **Digital Cellular Communications Capability**

Deploy DigiStat™ anywhere GSM communications is available using AT&T or T-Mobile cellular providers. Pay only for minutes consumed for during events when using Prepaid or Pay-As-You-Go option. Monthly contract optional. DigiStat™ automatically tracks its remaining cellular balance and signal strength.

- **Very low-power consumption allows battery-powered operation for years.**

Ideal for Sanitary (SSO) or Combined Sewage Overflow (CSO) monitoring.

- **Available in Several Different Enclosure and Antenna Options**



NEMA 4X



Manhole Cover Bracket and Enclosure



Field Installation

# MICROTEL

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## TECHNICAL SPECIFICATIONS

### Environmental

Temperature	-20 to 130 F operating, storage
Humidity	Humidity 0 to 95% RH, non-condensing
Surge / Isolation	Over 3000 volts isolation on external inputs, built-in surge protection on external/AC Power Input, built-in resettable fuse.

### Electrical

Power Requirements	12 Volt DC, less than 0.5 milliamp average current draw in low-power mode.
Fault Sensing Current	10mA primary dry contacts; 25-30 mA secondary dry contacts, current limited
4-20 mA power	The 4-20 mA input can be configured to power—with current-limiting--an external 2-wire transmitter. The
4-20 mA Input	50 Ohms: 0.2 V at 4 mA, 1.0 V at 20 mA. When configured to read a 4-20 mA current loop the system can be
Battery Back-up	Separate battery backup terminals. Internal battery voltage measurement circuit with low battery alert.

### Physical

Dimensions	Circuit board only: 4.0" H x 2.5" W x 1.0" D
Mounting Method	Circuit board, separate cellular modem, separate battery pack
Enclosure	Various NEMA 4X or 12 options

### Communications

Cellular interface	Enabled with installation of a GSM SIM card and external antenna
Cellular Approvals	FCC Part 2, 15, 22, 24; PTCRB Certified; AT&T / Cingular Wireless Approved; Rogers Wireless Approved;
Cellular Status/Controls	Cellular Status LED indicates signal strength or call in-progress.
Alert Capacity	Direct SMS text message alerts to up to 3 mobile phone numbers
Web / Email	Optional web-based alarm logging with email notification to up to 5 email addresses.

### Operational

Fault Delay/Sampling Time	3 consecutive readings, 1 minute sampling period
Data Retention	Non-volatile on-board EEPROM for all data including alarm parameters and phone numbers.
Visual Indicators	External/AC Power, System ON/Run/Test, Cellular Status
Controls	DIP switch for configuring second external input dry-contact or 4-20 mA input options; Onboard Test / Run
Programming	Via SMS text message from user's mobile phone.
4-20 mA Input	0.0 to 99.9% reporting resolution, +/- 2% accuracy. Configurable low and high alert thresholds, Calculated
Battery Voltage Measurement	0.1 Volt reporting resolution, 1% accuracy.
Temperature Measurement	1 degree Fahrenheit reporting resolution, +/- 2 degrees Fahrenheit accuracy.
AC Power	Detects and provides notification of loss of external / AC power and automatically switches to battery backup.

**Options** Assorted NEMA enclosures, surge protection, turn-key solar-powered solution, antenna options

**Warranty** 1 year Parts & Service at factory

**Applications** Sanitary and Combined Sewage Overflow (CSO), Remote pump stations, unmanned oil fields, greenhouses, refrigerated storage areas, level control, pressure, temperature, vacuum, leak detection, pH monitoring, fire, equipment malfunction, flow, residual, weight, power unmanned substations, HVAC, computer rooms, fuel

\*Specifications Subject To Change

Contact Microtel or your nearest authorized representative for more information

**Represented by**