

eTracker

True cloud-based sensor configuration, logging, reporting and data analysis all-in-one.

eTracker is the gateway of cloud-computing in merging sensors, communications, and information technology infrastructure under one user interface experience. eTracker was designed from the ground up to embrace the current and future trends of cloud-based remote data acquisition and the Internet of Things (IoT) revolution. This paradigm shift centralizes all the historically isolated processes of remote configuration, programming, logging, and telemetry. Configuration, logging, data processing and analysis is now done in the cloud, eliminating time and cost in programming and maintaining expensive, complex data loggers and communication devices at each remote location.

- Cellular-based telemetry (GSM or CDMA) and station controller.
- Direct Internet compliant data stream using HTTP/HTTPS.
- Sensor measurements stored on easily-accessible SD card.
- Cloud logging: all sensor data is forwarded to the cloud for processing, logging, retrieval and resulting action.
- Integrated sensor interface with ports: 4 analog, 4 pulse, SDI-12 (up to 62 SDI-12 sensors).
- Approximately 20X typical improvement in power consumption vs. typical cellular telemetry.
- Intelligent data management, data buffering, and network verification to ensure successful transmission of critical data.

eTracker embraces Stevens' M2M vision—

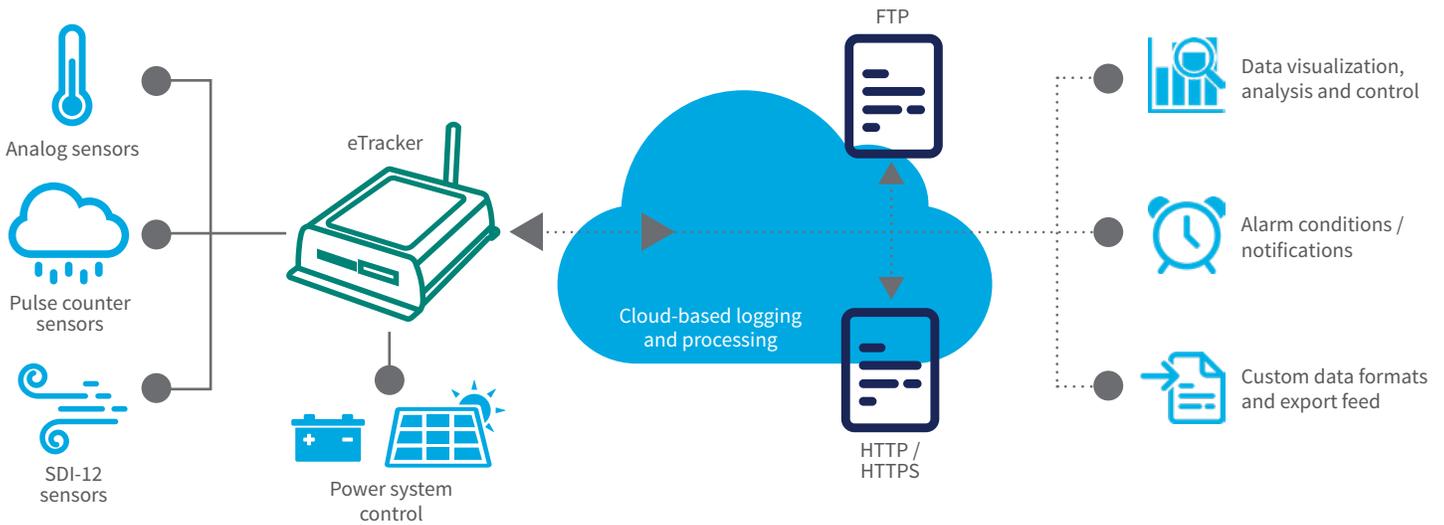
"What the sensors Measure, the Mind sees"!



STEVENS
MEASUREMENTS TO MIND

Simple stations.

Interact with your system and data from anywhere.

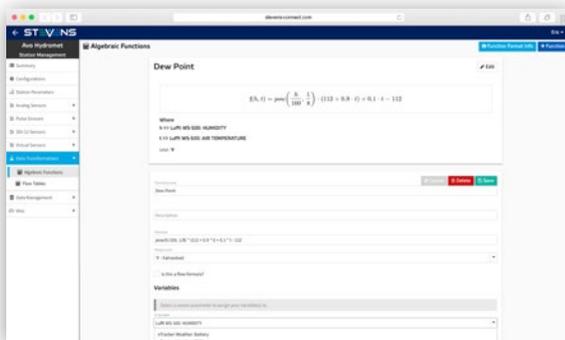


Stevens-Connect



Customize your dashboard display with drag-and-drop data widgets

A cloud-based interface to eTracker to configure hardware, analyze and present data, and manage alarms, calculations and data routing.



Custom math functions and calculations



Easily chart trends of any parameter

eTracker:

True cloud computing,
NOT cloud viewing.



THIS IS M2M.
MEASUREMENTS TO MIND

TECHNICAL SPECIFICATIONS

KEY FEATURES

| | |
|----------------------------|---|
| Processors | 16-bit dsPIC microprocessor, and 16-bit TI MSP430 |
| Data storage | Removable 2 GB SD memory card (FAT 32) |
| Non-volatile memory | All setup parameters |
| Logging interval | 1 second to 24 hours (sensor dependent) |
| Reporting interval | 2 minutes to 24 hours |
| Cellular antenna | SMA |
| LED indicators | Power, cell network, test message |

CURRENT CONSUMPTION

| | |
|---|--------|
| Listen/trigger mode/idle | <2 mA |
| Logging | 35 mA |
| Data receive/store/ prepare for transmission | 150 mA |
| Data transmit | 250 mA |

POWER

| | |
|------------------------|--|
| Input voltage | 10 to 18 VDC (reverse polarity protection) |
| TX output power | 24.3 dBm (270 mW) |

SENSOR INPUT

| | |
|---------------------|--|
| Analog input | 4 analog channels, single-ended Input type: 2 wire, 0 – 2.5 V or 4 - 20 mA current loop Sensor power: 24 VDC switched (under firmware control) Analog to digital (0-2.5 VDC): 21-bit resolution |
| Pulse input | 4 pulse channels Continuity or TTL: 0 V to 2.2 V - 5 V Maximum rate: 10 pulses per second |
| SDI-12 input | Number of sensors: up to 62 sensors (up to 9 parameters per sensor) Sensor power: 12 VDC switched, during measurement |

ENVIRONMENTAL

| | |
|------------------------------|---|
| Operating temperature | -30°C to 65°C * |
| Storage temperature | -40°C to 85°C * |
| Lightning protection | AC transient voltage suppressor (TVS) on each sensor port input |

PHYSICAL

| | |
|-------------------------------|--|
| Dimensions (H x L x W) | 1 3/8" (3.5 cm) x 5 1/8" (13 cm) x 3 3/4" (9.7 cm) |
| Weight | 10.78 oz (305.6 g) |

* SIM Card selection may limit this range for GSM version

ORDERING INFORMATION

| PART # | DESCRIPTION |
|-----------|---|
| 80060-60B | eTracker for GSM * |
| 80060-60A | eTracker for CDMA * |
| 80060-502 | Mini sensor interface box |
| 80060-505 | Full sensor interface box |
| 93777 | Antenna, dual-band 900/1900 MHz, 5dB gain, Omni with N female |
| 92824-002 | Cable assembly, cell modem to bulkhead, N to SMA, 2 ft. |
| 92845-010 | LMR400, N-to-N, antenna cable length per 10 feet |
| 93772 | Antenna, 900 Mhz, 70 MHz BW, 11DB, Yagi with N female |
| 93950-108 | Antenna, 700-2500 MHz wideband, high gain, log periodic with N female |



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