Designed for Municipal Applications

- **Waste Water lift stations**
- **Fresh water pump stations**
- **Environmental monitoring**
- **Energy Management**
- **Security**
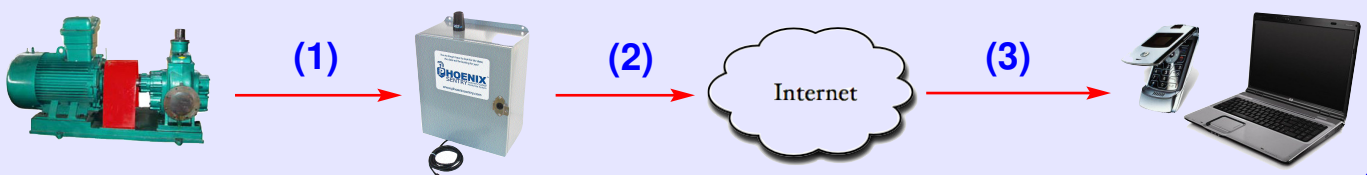- **Asset management**

Model DC-1000 "Poseidon"

Product Description

- Based on ARM core Microprocessor Technology
- Multiple Inputs and Outputs - voltage, current loop, pulse, serial bus, relays
- Supports all generic sensors (over 1000 supported)
- Variable data sampling rate (10 millesconds minimum to days)
- Uses AES-128 bit Data Encryption for enhanced security
- Rugged military grade PCB design and components
- NEMA 4X rated IP66 waterproof enclosure standard Other NEMA enclosures available on request
- Battery Backup supports up to 12 hours of data communication after AC power failure
- Expandable for increased inputs and outputs with G3X1 expansion board option
- Designed to perform in hostile environments
- Protected by a full one year warranty (extended warranty available)
- Requires only AC power - single phase AC 120/208/220/240 VAC at less than 2 amps
- Cellular connections available for your selected provider (AT&T, Sprint, Verizon, Rogers, etc)
- Internally mounted cell antenna for vandalism protection
- Lockable enclosure
- Custom interfaces available for your proprietary devices (SCADA, PLC's, "black boxes",sensors, etc)

How it works, simply as easy as 1 • 2 • 3!

(1) Your equipment's sensors connected to the DC-1000

(2) The DC-1000 packetizes and encrypts the data and sends it over the internet to...

(3) Your selected viewing devices - Laptop, desktop, cellular phone or tablet

DC-1000 "Poseidon" Specifications

Digital Inputs: (5)
Type: Dry contact, less than 1 mA. at 3.3VDC

Analog Inputs: (1)
0-10 Volt , 12 bit resolution
Isolated to 5000 volts

Serial Input: (1)
RS-232 +/- 5 volt

Input Power requirements
88-264 VAC , 47-63 Hz, 1.6 amps maximum.

Communication (Network)
Broadband RJ-45 Ethernet: (1)
Telephone (Dial-up/DSL): (1)
Cellular Modems: (1)
Types supported: CDMA,GSM

Mechanical:
Operating temperature: -25 to +70 C
Weight: 13.0 lbs with battery
Size: 14 h x 12 w x 6 d inches
Standard rating: NEMA 4X IP66

Warranty: Standard one (1) year
Optional 3 year full warranty available

Digital Outputs: (2)
Type: Relay driver (Requires relays part #023-00000018)

4-20 ma. inputs: (1)
12 bit resolution
Isolated to 5000 volts

USB ports: (1)

Battery type:
Yuasa or equivilant (supplied)
12V, 5 amp-hour sealed lead-acid
Backup time (with fully charged battery)
Approximately 12 hours

G3X1 Expansion board
For users requiring more I/O, the G3X1 option board provides the following additional inputs and outputs

- **4-20 mA. inputs:** (6)
  10 bit resolution
- **Digital Inputs:** (2) Dry contact
- **Relay outouts:** (2) SPDT (G5V-1-DC3)
- **Open drain ouputs:** (2) for driving ext. loads. Rated 24V at 1 amp max

•Ordering Information•
Part Number

DC-1000 — [*] — [*] — [*] — [*]

Expansion Board
0 - (Standard) No expansion board
1 - G3X1 expansion installed

Antenna Option
0 -(Standard) internal antenna
1 - External ruggedized Antenna

Enclosure Option
0 - (Standard) Polycarbonate Nema 4 enclosure
1 - NEMA 4X Stainless
2 - Other (Specify)

Network connection Option
0 - (Standard) Direct connect Ethernet (RJ-45)
1 - Cellular (choose carrier)
2 - Dial up/ DSL (RJ-11)
3 - Wi-Fi
4 - Satellite

PHOENIX SENTRY
Internet Enabled Monitoring System