

CP-2 DIGITAL CELLULAR INTERFACE

FEATURES

- Communicate to any Logic Beach data logger in areas covered by CDMA cellular network
- Replace hours of travel time for data collection with just a phone call
- Allows for full logger operation and functionality: communication, real-time viewing, programming, status updates and data downloading
- Supports HyperWare Automation Program, Auto-Answer, Call-out mode and Page-Out on Alarm
- Pre-packaged and wired, ready for activation
- Industrial, utility, environmental and mobile applications all supported.

OVERVIEW

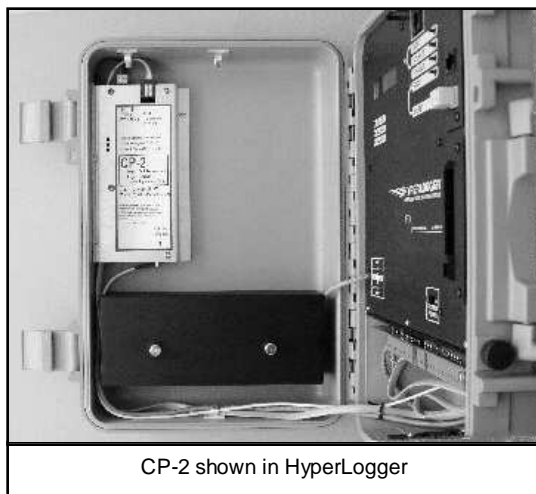
The Logic Beach Digital Cellular Interface facilitates communication between a modem equipped PC running HyperWare™ software and a cell phone equipped data logger. The system uses the nationwide CDMA digital cellular telephone network for reliable two-way data communication. The system consists of the data logger equipped with an internal low-power modem and a digital cellular transceiver.

Cell phone systems are available for all Logic Beach data logging systems. From low channel count pressure and flow monitoring to complete power and temperature logging and alarming systems the CP-2 can be integrated with a data logger creating a system appropriate for your needs.

Once cellular service is established the CP-2 is ready to deploy in applications where phone lines are difficult to access or too expensive to install.

HARDWARE COMPONENTS

All of our current data logging products can be configured to accommodate the CP-2 system, consisting of the CP-2 cell phone, a 300mW industrial cellular transceiver, our low-power modem, suitable antenna, associated cabling and appropriate power supply for the system, application, and location. Power



CP-2 shown in HyperLogger

is obtained from a nominal 12 Vdc supply, a 120Vac power supply (p/n DCXF-10), or from a limited energy source such as a rechargeable battery / photovoltaic source (contact Logic Beach for system power source recommendations).

HYPERWARE™ IMPLEMENTATION

HyperWare is the standard Windows based software application used in conjunction with the Logic Beach portable and remote site data logging instruments. HyperWare provides serial communication with the loggers, programming of the logger, real-time trending, data plotting and data post-processing (see separate data sheet for details on HyperWare).

Establishing a phone connection with a remote, cell phone connected logger is simply a matter of opening the *Serial Communication Dialog* within HyperWare and selecting Modem Connection. Add / Select the site's cellular phone number, select *Dial* and the connection will be established. After modem negotiations a transparent connection is established providing the same connectivity functionality as RS232, Ethernet, or RF modem.

HAP IMPLEMENTATION

HyperWare™ Automation Program (HAP) is a stand-alone software application that automates the regularly



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Data Logging Communication Options

scheduled data collection function. HAP can be configured to automatically call loggers then perform data downloads, memory clears, downloaded data file conversion, posting of Alarm messages, and even the generation of User customized reports through Windows™ automation to Excel. Reports or data can be printed or posted to a website for enterprise wide data sharing. (See separate HAP data sheet).

SYSTEMS CONFIGURATIONS

HL-1 and HL-200 HyperLogger

The cellular phone in the HyperLogger system is mounted in the enclosure door with logger and cell phone power provided by a DCXF-10 1A AC power supply. The 6 D-cells may be used as back-up power for data logger power only. **Ordering information:** CP-2, data logger and desired interface module(s), one HLIM-5-14.4, and antenna.

HLP-10 and HLP-200 HyperLogger PowerPlus

The cellular phone in the HyperLogger PowerPlus system is mounted in the enclosure door with logger and cell phone power provided by a DCXF-10 1A AC power supply. The 6 D-cells or the Rechargeable Power Supply may be used as back-up power for data logger power only. **Ordering information:** CP-2 with data logger and desired interface module(s), one HLIM-5-14.4, and antenna.

ML-300 System - ModuLogger or ModuLogger MINI

The cellular phone in the ModuLogger system is mounted in the enclosure door. Power for the logger and cell phone may be supplied by the AC power adapter, DCXF-10 or 2 (recommended) SRB-1 batteries on an AC charger to provide limited cellular connect time. PV power may also be provided from an external source. Contact the factory for options.

Ordering information: CP-2 with data logger and desired interface module(s), one MLIM-5-14.4, and antenna.

SPECIFICATIONS

Data Logger Specifications: Logic Beach offer a variety of data logging solutions. The field-upgradable modular design allows for precise logger configuration

regardless of the current application. Refer to the Logic Beach HyperLogger™, HyperLogger™ PowerPlus™, and ML-300 ModuLogger data sheets.

CP-2 Specifications:

Supply Voltage: 5 -25VDC

Transmit Current: 450mAdc (max) @ 12Vdc

Idle Current: 150mA (max) @ 12Vdc

Operating Temperature Range: -10°C to 60°C

LED Indicators: Power, system connection, signal strength.

Antenna Connection: MMCX sub-miniature RF

Interface Connection: RJ-12 2-wire for data. Modem connection cable supplied.

Dimensions: 2.75 x 6.7 x 1.2 approximate.

Solar Power Systems: Solar power systems allow for remote installation without a reliable AC power source. Power requirements vary widely with logger configuration, cellular connection times, options, sensor power requirements, and installation location. Contact the factory for consumption calculations, battery sizing and custom system configuration assistance.

PART NUMBERS AND OPTIONS

CP-2: 300mW digital cell phone, connectors, mounting bracket and antenna connector pigtail.

ANT-2D: Magnetic mnt. antenna, includes 15' cable with liquid tite fitting, and SMA to MMCX subminiature connector cable,

ANT-MTG-KIT: Mounting plate, fasteners and hardware for permanent mounting of ANT-2D antenna. For .75 to 2.0 pipe, horizontal or vertical mounting. 1.5" and 2" pipe clamps included.

ML-300: ModuLogger and ModuLogger MINI System enclosure for CP-2, 2- SRB-1s, PSM-2.

SRB-1: 12vdc@12Ah single sealed rechargeable gel-cell.

PSM-2: Sensor excitation power supply. Outputs: 5Vdc fixed, 10, 15,24Vdc selectable. 100mA max..

DCXF-10: 1A 12Vdc power supply

CHRG-12/24: Stand alone gel-cell battery charger, specify 12 volt or 24 volt system. For SRB-1.

12v @ 2A, 24V @ 1A

Specifications are subject to change. Digital cellular phone coverage and connection reliability are unpredictable. User is responsible to determine required coverage area and if signal strength within area is adequate.

LOGIC BEACH INCORPORATED

8363 - 6F Center Drive La Mesa, CA 91942 | Tel: 619-698-3300 | Fax: 619-469-8604 | www.logicbeach.com