

# i.Report Satellite/Cellular Global Remote Telemetry Model VP4-2090



CONTROL SOLUTIONS MINNESOTA



Control Solutions' i.Report Satellite/Cellular Global Remote Telemetry Unit, Model VP4-2090, offers an array of advanced features:

- Remote monitoring and data logging
- Cellular and satellite connectivity options:
  - Satellite only
  - Cellular only
  - Cellular with satellite backup
- GPS tracking and geo-fencing for mobile apps
- 2GB data flash for event and data logging
- Battery backed real time clock for timestamps
- Programmable soft PLC included
- Modbus RTU master/slave port
- Over the air (cellular/satellite) control
- Over the air (cellular only) firmware update
- 4G LTE cellular data modem
- LEO Satellite transceiver (Iridium)
- 16 Universal inputs
  - 0-10VDC, thermistor, dry contact
  - 4-20mA with external resistor
  - 16-bit sigma-delta converter
  - Continuously self calibrating
- 2 Fixed analog inputs, 0-30VDC input range
- 2 Discrete outputs, 30VDC 1A open drain FET
- Internal temperature sensor
- Hardened RS-485 serial port (Modbus RTU)
- CAN 2.0b J1939 Engine monitoring port
- USB port (connects to laptop for service)
- 32-bit ARM7 processor, 512K Flash
- 2GB data flash for event/data logging
- 128K EEPROM for configuration storage
- Operates from 10-30VDC or 12-24VAC
- NEMA 4X, IP66, IP68 Enclosure

**i.Report  
Satellite/Cellular  
Global Remote Telemetry  
Model VP4-2090**



**Global Remote Telemetry Unit**

- LOCAL COMM REQUEST    ● SYSTEM HEARTBEAT    ● CELLULAR LINK
- LOCAL COMM REPLY    ● SYSTEM STATE    ● CELLULAR POWER
- LOCAL COMM ERROR    ● CONNECTION STATUS    ● SATELLITE LINK
- CONNECTION ERROR

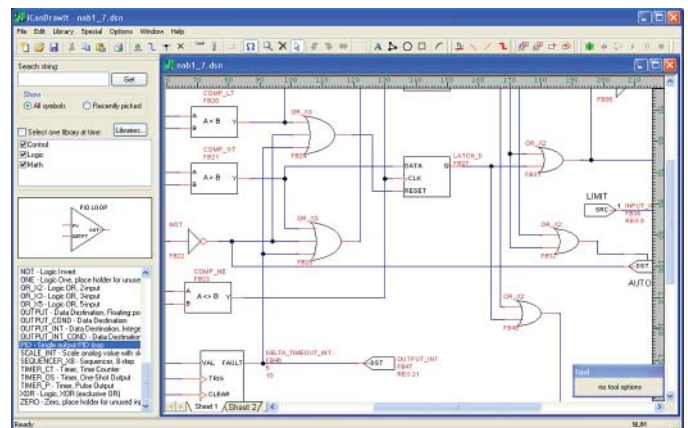
Front panel LEDs indicate satellite and cellular connection status and progress, overall system state, and local Modbus communication activity.

Control Solutions' i.Report Model VP4-2090 Global Remote Telemetry Unit is ideal for demanding remote alarm monitoring and data logging with optional GPS tracking. It includes both cellular and satellite radios built in. The model VP4-2090 can operate on cellular only, satellite only, or cellular with satellite backup for mobile applications. The optional GPS receiver provides tracking data for mobile applications.

The VP4-2090 includes 18 hardware sensor inputs, of which 16 are universally configurable as analog, temperature (thermistor), or discrete/dry contact inputs. Two are fixed analog with 30V input range for directly monitoring batteries. The VP4-2090 also includes 2 discrete outputs for functions such as generator start on command or local alarm indicator.

The VP4-2090 includes a Modbus RTU port which may operate in master or slave mode. The VP4-2090 may poll multiple Modbus slaves to greatly expand I/O capability. The VP4-2090 may also operate as a slave allowing a PLC in a larger system to write data to the VP4-2090.

The VP4-2090 includes a CAN/J1939 port for applications such as engine monitoring. The VP4-2090 can receive any standard J1939 message, including transport protocol. The VP4-2090 can initiate data read requests. The VP4-2090 can transmit J1939 messages sending data provided by the web portal or derived internally. Message construction is completely configurable, and transport protocol is supported in both directions.



The i.Report V4-2090 includes a field programmable soft PLC. Control Solutions' i.CanDrawIt® graphical programming tool is used to easily create programs.

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