

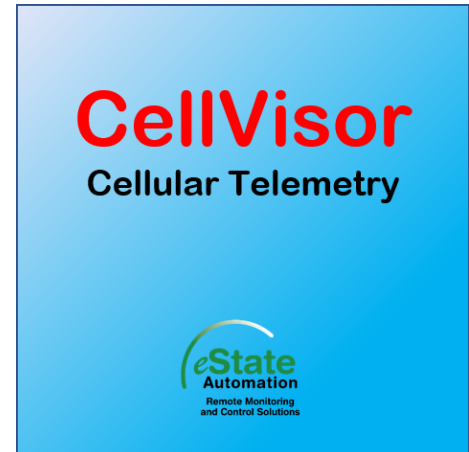
CellVisor

CellVisor CV6000 Series Cellular Remote Monitoring and Control Module.

The proven, practical solution for remote site management.

System Features:

- Proven over several evolutions since 2001
- Available for 3G, **4G & CATM1** and Satellite networks.
- SMS access for monitoring and control
- Data sent by email, FTP or Internet packet-data**.
**Stand-alone “mini-server” program supplied with this option.
- Integrated controller, modem, power supply, relays and isolated inputs.
- Includes PC-based configuration and monitoring software.
- Low power operation – engineered for solar applications.
- Custom interfaces available for specialised devices, e.g.:
 - Temperature/humidity/dewpoint.
 - Rain gauge, wind speed and direction, and soil moisture sensors.
 - RainWise, Davis, Gill and Vaisala Weather Stations.
 - HTTP interface for web-enabled peripherals.
- On-board event log.
- Configurable “watchdog” function to confirm system operation.
- Cross dependency of inputs e.g. “pressure fault only examined if pump is running for 30 sec.”
- Relay outputs can be controlled by SMS, programmed sequence, and directly from alarm inputs.
- Versatile software control, including “one-touch” remote activation of complete control sequences.
- Optical isolation of digital inputs – wide input range.
- Digital inputs can be configured as pulse-count totalisers or proportional frequency inputs.
- Optional GPS.
- Optional low power digital radio link between modules (up to 2km, depending on terrain).

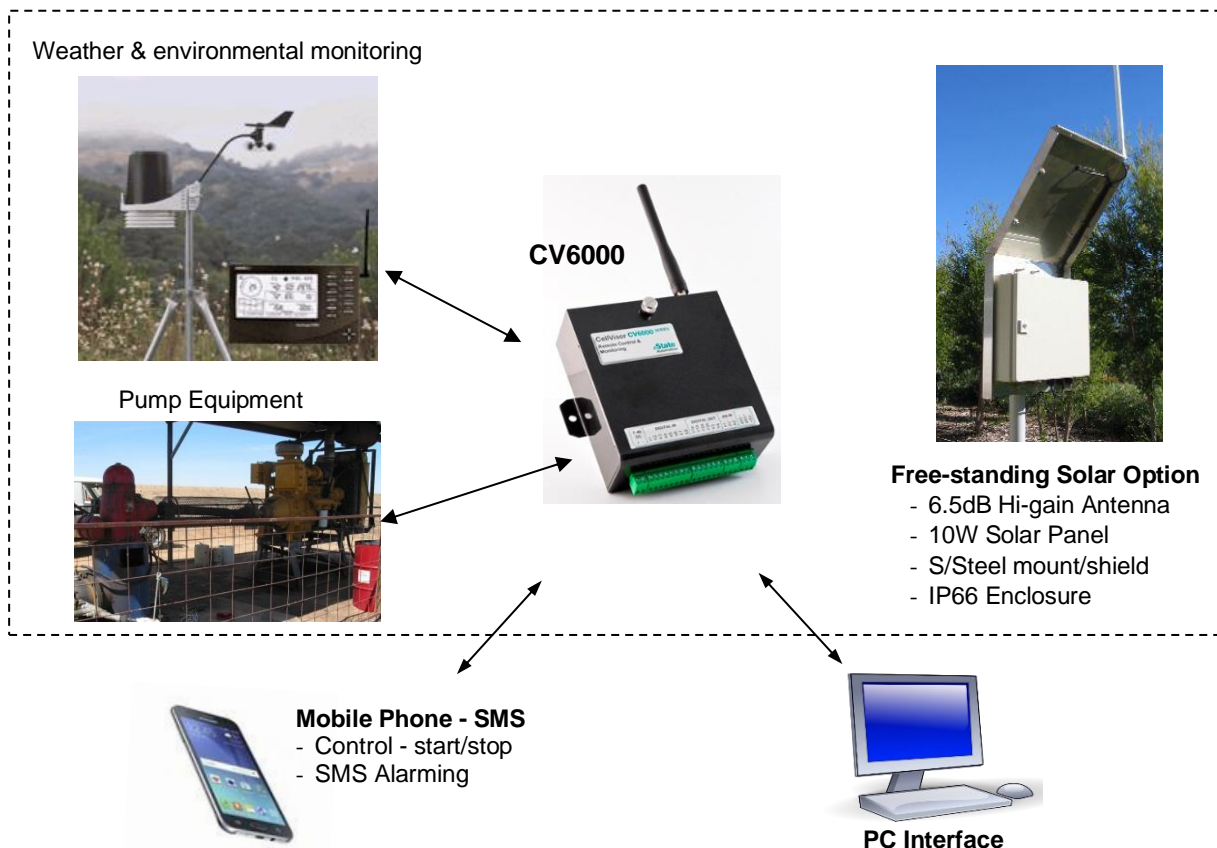


Complete Module – Approx. 115 x 120 x 47 mm, (Brackets add 12mm to each side)

CellVisor CV6000 Series System Specifications

- Equipment can be controlled remotely by SMS commands and/or autonomous onboard logic.
- Alarms can be sent via SMS and/or email
- On-board switch-mode power supply can accept unregulated 7-40V DC in.
- 8 x optically-isolated digital inputs can accept signals of up to 48 V DC.
- 2 x Analog inputs @ 0-10 V or 4-20mA (with ext. resistor). *Analogs can be expanded with readily-available Modbus I/O*
- **Digital Outputs** (total of 8 on-board):
 - 2 x Relay outputs each capable of switching 5A at 240V AC
 - 6 x Solid state relay drivers, capable of switching 500mA at the supply voltage.
- **Ports:**
 - 1 x USB (local configuration)
 - 2 x RS232 (via on-board headers)
 - 1 x 2-wire RS485 (external terminals)
 - Ethernet option.
- **Expandability:**
CV6000s can be linked together or to third-party Modbus I/O, via RS232/RS485, digital radio or Ethernet.
- Data logging – 1MB flash-file option.
 - Approx. 32 bytes / event. The 1MB flash is typically partitioned to store at least 20,000 events.
 - An “event” is any (digital) equipment start, stop, alarm, etc, or any logged analog value.
 - Analogs can be programmed to log on time period and/or conditional upon minimum % change.
- **Communications (factory options):**
 - Two-way translation between Modbus protocol and SMS, for direct interface to industrial controllers.
 - Support for SDI-12 protocol
 - Modbus TCP/IP host: ‘concentrator’ for serial devices, allowing direct SCADA access for legacy equipment.
 - *See following page for a subset of all protocols supported.*
- Power consumption in stand-by, with modem powered off, approx. 75 mA @ 12VDC
- Operating temperature: -25 to +70C
- Humidity 5-95% non-condensing
- Enclosure dimensions: 115 x 120 x 47 mm, (Brackets add 12mm to each side).

Typical CellVisor Application



CellVisor CV6000 Connectivity

