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SMS85GPS

SMS85GPS provides the capability to monitor geographical position as well as providing monitoring and control capability for remote equipment via SMS. An additional board carries the GPS receiver system. Data is logged to non-volatile memory and can be downloaded in CSV format via a PC dial-up.

Specifications:

Mobile network connection	GSM or CDMA.
Protocols supported	NMEA, SMS and 9600 Baud data (with SIM card data number).
Digital inputs	2 switch closure inputs.
Mixed signal inputs	4 digital switch closure or 8 bit analogue.
Log Memory capacity	2000 time-stamped samples.
Log memory retention	200 years in absence of power.
Acquisition rate	5, 10, 15, 20, 30 or 60 minutes.

Optional accessories:

Standard GSM antenna	Small adhesive mount antenna with 3 metre cable, FME connector.
Standard GPS antenna	Active powered low profile antenna with a magnetic base.
Power supply	ETM90-260 VAC 50-60 Hz input, 12VDC regulated output.
GPS module	Any NMEA compatible module with interface PCB.
Mounting track	Snap track.

PET85PSTN

The PET85PSTN provides the capability to monitor and control remote equipment via a modem attached to a PC. This offers the same capabilities as all models of the SMS85GSM or CDMA, except that a PSTN connection is used to the telephone network. Some carriers offer a PET gateway to their mobile services, allowing SMS messages to be delivered in response to PET alarm messages.

Analogue inputs and alarm conditions are logged to non-volatile memory and can be downloaded in CSV format via a PC dial-up. The PET85PSTN can be configured using a PC and either a direct connection or a dial-up connection.

Specifications:

Network connection	PSTN.
Protocols supported	PET (TAP) and data with Baud rate determined by modems.
Inputs	4 dedicated digital plus 4 digital or analogue (8 bit).
Log memory capacity	4000 time-stamped samples.
Log memory retention	200 years in absence of power.
Acquisition rate	5, 10, 15, 20, 30 or 60 minutes.

Optional accessories:

PSTN modem	Standard external modem. (with compatible AT command set).
IP65 enclosure	

Alarm monitoring, data logging & control, all done remotely!



Saves time, money & manpower

SMS85

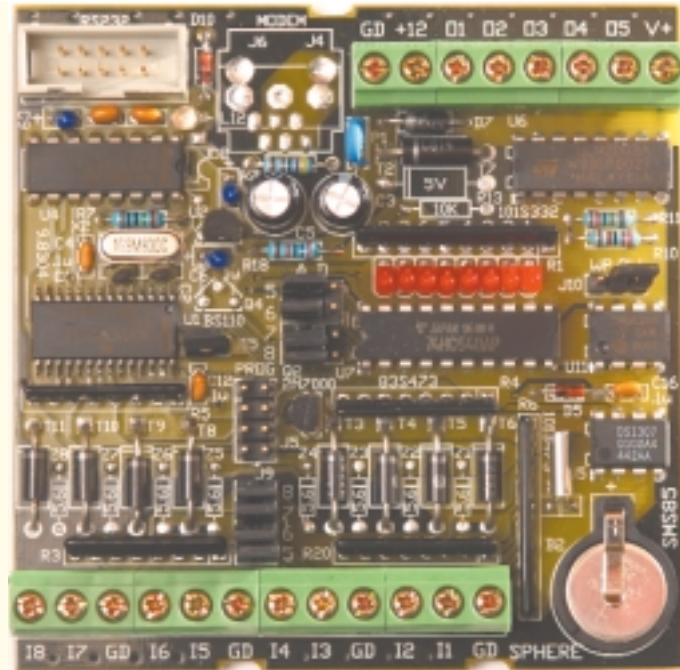


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Using the SMS85, there is no need to travel to a remote site simply to check whether equipment is still working, to retrieve data or to turn a device on or off. Now all this can be done directly from your mobile phone or computer. If a fault condition occurs, the SMS85 will inform you. The system works wherever coverage by the GSM, CDMA mobile network, or a standard phonenumber is available.

The SMS85 is a very flexible 8-input/5-output controller, which can be used to remotely monitor and control a wide range of systems.

Alarms generated by the SMS85 can be sent to a selectable number of mobile phones using the Short Message Service (SMS). Your mobile phone can detect status of all inputs and outputs; even turn outputs on and off and change alarm telephone numbers simply and quickly.



Typical applications:

- Water and waste water treatment
- Irrigation
- Security monitoring
- Tank farms
- Monitoring levels, flows, temperature and pressure
- Monitoring water quality in cooling towers
- Large food distribution complexes
- Remote locations using solar power
- Primary producers - chicken breeders, vineyards and fish farms
- Agricultural usages - frost monitoring, sudden weather changes, flood warnings
- No phone lines required - use mobile CDMA and GSM for both incoming and outgoing messages.

If you don't have GSM/CDMA coverage then the PETlog product provides many of the same features but uses the PSTN telephone network.

A model designed to suit your application.

Each model can be used on all three telephone networks. ie. GSM, CDMA or PSTN

All models provide the capability to monitor and control remote equipment via the Short Message Service (SMS), using the telephone network of your choice.

SMS85

Both alarm notification and SMS85 configuration can be sent by SMS from a cellular phone. An alphanumeric PIN provides security from unauthorised accesses. A dial-up data connection can be made using a standard modem attached to a PC. A GUI provides a simple and intuitive way to configure the SMS85.

Universal specifications:

(Other product specifications as listed)

Telephone network connection	GSM, CDMA or PSTN.
Protocols supported	SMS and 9600 Baud data (with data number enabled on SIM card).
Inputs	4 dedicated digital plus 4 digital or analogue (8 bit).
Input detection time	< 1 second with debouncing disabled, 3 seconds with debounce.
Digital Outputs	5 (open-collector,switched to ground when enabled).
Digital output switch rating	50VDC max, 100mA max (all outputs active) 500mA max (1 active).
Phone number capacity	4 numbers, max 14 digits.
Alarm number mapping	Each alarm can be sent to any combination of the 4 phone numbers.
Retry count	1 to 15 retries for each alarm if network unreachable.
Time between retries	20 to 255 seconds.
Inductive loads	Outputs have clamping diodes, additional diode at load recommended.
Analogue input range	0-5VDC or 4-20mA with 250 Ohm shunt (4-20mA compatible).
Analogue input impedance	47kOhm.
Analogue input units	Engineering inputs can be specified for each input.
Analogue scaling	Full scale and zero offset parameters for each input.
Analogue alarms	Level or window with selectable hysteresis, selectable inversion.
Site message	Up to 16 characters prefixed to all alarms.
Alarm message	Up to 16 characters for each alarm.
RS232 interface	Rx, Tx, CD & DTR via a 10 pin header (compatible with DE9).

Dimensions	OEM PCB (W 82.5mm, L 82.5mm, H 20mm).
Power requirements	9 to 15 VDC, 30mA.
Wiring connectors	Screw terminal.
Absolute power supply limit	70 VDC.
Environmental	0°C to 55°C, 5% to 95% RH, non-condensing.

Optional accessories:

Standard antenna	Small adhesive mount antenna with 3 metre cable, FME connector.
AC power supply	ETM90-260VAC 50-60 Hz input, 12VDC regulated output.
AC UPS	240 VAC nominal, 1.5 or 7AH capacity, 12 VDC regulated output.
Solar power supply	Dependent on geographical location, call for details.

IP65 enclosure

SMS85LOG

Analogue inputs and alarm conditions are logged to non-volatile memory and can be downloaded in CSV format via a PC dial-up. The SMS85LOG can be configured using a PC and either a direct connection or a dial-up connection. It has 4 digit inputs, 4 mixed signal inputs and 5 digital outputs including a local alarm indication. Control algorithms can be implemented using the in-built logic functions and delay timer.

Specifications:

Log memory capacity	4000 time-stamped samples.
Log memory retention	200 years in absence of power.
Acquisition rate	5, 10, 15, 20, 30 or 60 minutes.

SMS85COUNT

The SMS85COUNT has support for four pulse counting channels each with 32 bit counters giving a maximum count of 4,294,000,000. Analogue inputs and alarm conditions are logged to a non-volatile memory and can be downloaded in CSV format via a PC dial-up.

Specifications:

Pulse counter inputs	4 switch closure inputs.
Maximum count rate	15 counts per second on each channel (32 bit counters).
Mixed signal inputs	4 digital switch closure or 8 bit analogue.
Log memory capacity	4000 time-stamped samples.
Log memory retention	200 years in absence of power.
Acquisition rate	5, 10, 15, 20, 30 or 60 minutes.

SMS85FLOW

The SMS85FLOW has support for monitoring fluid flow in response to valve or pump commands and will generate alarms if flow signals and valve or pump control signals are not correlated. Alarm 1 is generated if there is no flow after the pump starts and while the pump is running.

Alarm 2 is generated if there is still flow after the pump stops. The delay time is user selectable. Data is logged to non-volatile memory and can be downloaded in CSV format via a PC dial-up.

Specifications:

Digital signal inputs	2 dedicated to pump and flow inputs, 2 switch closure inputs
Mixed signal inputs	4 digital switch closure or 8 bit analogue
Log memory capacity	4000 time-stamped samples
Log memory retention	200 years in absence of power
Acquisition rate	5, 10, 15, 20, 30 or 60 minutes

