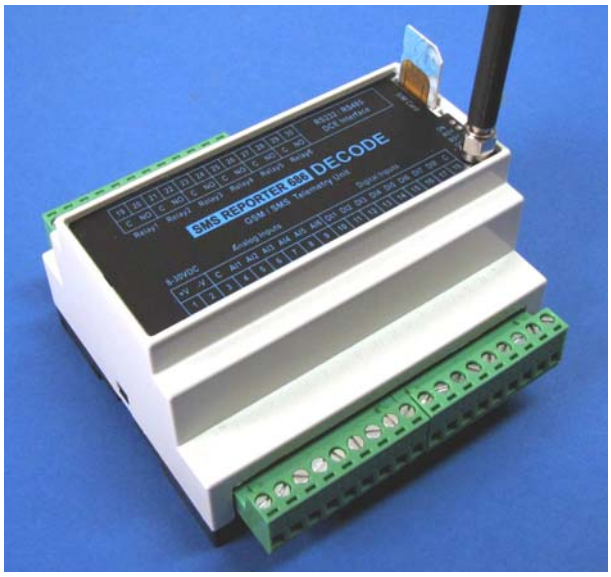
SMS REPORTER — Industrial GSM telemetric device



Features

- **Industrial GSM/SMS 900/1800/1900 MHz telemetry device**
- **Based on Simcom SIM900D module**
- **Three different platforms based on number of inputs and outputs**
- **6/3/0* analog voltage/current inputs, 6/3/1* relay outputs with NO contacts and 8/4/1* optocoupler inputs**
  *** see table of hardware platforms**
- **1/4/8 SMS numbers per input**
- **RS232 DCE serial interface**
- **Device setup via SMS messagees or via included PC software**
- **Wide power supply range 8 to 30V DC**
- **DIN 35mm rail mounting**

Description

SMS Reporter is industrial GSM/SMS telemetry device which uses GSM network for transferring commands, alarms and data by using SMS messages. It is based on Simcom SIM900D module. Standard RS232 connection enables simple device parameter setup over PC terminal with included PC software. Setup is possible also with SMS. Antenna is connected on female SMA 50Ω connector.. Device state is indicated by four LED diodes placed between SIM card slot and GSM antenna connectors Device has wide power supply range, from 8 to 30V DC and it is suitable for DIN 35mm rail mounting.

Application

SMS Reporter handles remote reading of analog and digital inputs and managing relay outputs by sending SMS message. Moreover, SMS reporter can be adjusted to send SMS messages on each state change of analogue and digital input. Each analogue and digital input has SMS table for 8 different SMS numbers. Analog inputs can be configurated to work as voltage or current inputs. Digital inputs and relay outputs are galvanicly isolated, allowing easy implementation into every system. Relay outputs have large current capacity, so they can be used to directly drive 220V consumers. Digital inputs can operate as counter inputs, whilst relay outputs can operate in pulse mode.

***TABLE OF HARDWARE PLATFORMS**

Platform	Relay outputs	Optocoupler inputs	Analog inputs
110	1	1	0
343	3	4	3
686	6	8	6

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Technical specifications

GSM	SIMCOM SIM900D Quad-Band GSM/GPRS 850/900/1800/1900 MHz Compliant with GSM phase 2/2+ standard
Output power	Class 4 (2W at 850/900MHz) Class 1 (1W at 1800/1900MHz)
SIM card	Mini SIM, 1.8V/3.0V
Serial interface RS232	DCE configuration, DB9 female
Serial baud rate in command mode	9600 bps, 8N1
Analog inputs	6/3/0* inputs with conjoint bulk, with adjustable software: - current inputs 0-20mA or 4-20mA - voltage inputs 0-5V or 0-10V
Digital inputs	8/4/1* inputs with conjoint bulk, separated with optocouplers Nominal 12V DC – 24V DC max 30V DC Logic 0 – Input voltage < 4V DC Logic 1 - Input voltage >5V DC Counting mode: 0 - 65535 pulses
Relay outputs	6/3/1* relays with NO contacts, 5A, 30V DC / 250V AC
Antenna connector	SMA female, GSM 50Ω antenna with 3m cable included
LED indication	Power ON, GSM ON, Ready, Busy
Power supply	DC power supply, from 8 to 30V
Power supply connector	Pluggable screw clamp 5mm, 2.5mm^2
Power consumption	Standby 0.2W, max 3W
Dimension	70 x 85 x 58 mm (without connection blocks)
Weight	cca 150g
Protection	IP40
Temperature range	-20°C to +75°C, 0 to 95% RH (non condensed)
Mounting	DIN 35mm rail

* see table of hardware platforms