CMS-300
Meteorological Monitoring System Data Logger
Compatible with the web-based monitoring software

Overview

CMS-300 is a data logger that its hardware and software structure is modular and based on the RTOS method, which enables it to be used in meteorological, hydrological and environmental measurement systems. The system is designed to monitor atmospheric conditions such as temperature, humidity, pressure, velocity and wind direction, etc. In accordance with the standards of IGMC. Convenient configuration, definition and recording of up to 20 sensors and memory upgrades from 2 to 16 GB without hardware switching are the hallmarks of this device. The data logger sends the data collected through the GPRS and LAN platform to the central server, which can be monitored through the web application developed for this purpose.

Advantages

▶ Modular and flexible structure
▶ Based on the RTOS method
▶ Easy configuration
▶ Record and read variety of sensors easily, user-definable

Application

▶ Meteorology
▶ Power plants
▶ Environmental and agricultural monitoring networks
▶ Water management
▶ Industry
▶ Measurement and control technology
▶ Hotels
▶ Airports

AIR PRESSURE SENSOR | AIR VELOCITY SENSOR | WIND DIRECTION SENSOR | HUMIDITY SENSOR | TEMPERATURE SENSOR | GPRS | GSM SUPPORT | LAN | BACK-UP BATTERY

CMS-300
Meteorological Monitoring System Data Logger

Possibilities

▶ Define and register up to 20 sensors
▶ Define a sensor data in the data logger such as unit of measurement, number of integers, number of decimal places, communication protocol for sensor reading, sensor communication port
▶ Modular application with the ability to define information and remove and add sensors
▶ Ability to configure remote sensors data and data logger settings (using GPRS modem) and send files on SD CARD
▶ Ability to read and set Remote Data logger clock
▶ Ability to remotely modify the Data logger application (using GPRS module) and by sending files on
▶ SDCARD
▶ Display for instant values and Data logger settings
▶ Keyboard for entering data manually
▶ Built-in RTC
▶ Daylight saving time (DST)
▶ Sampling interval of 10 to 60 minutes
▶ Ability to connect to different GSM modems (modem card switch only)
▶ Expandable memory size without hardware replacement

Technical Specifications

▶ Communication ports	4 RS232 ports and 4 RS485 ports
▶ Signal inputs	12 analog inputs, 4 digital inputs (expandable)
▶ Precision Analog to Digital Converter	16 bits
▶ Output signals	9 outputs of 4-20 mA
▶ Communication routes	GSM modems (GPRS, EDGE, UMTS, HDSP)
	SMS and standard TCP / IP communication coverage
▶ Sensor communication protocols	NMEA, Modbus RTU (Ability to add additional protocols on request)
▶ Memory	2 MB internal flash memory / from 2GB microSD memory to more capacities
▶ Screen	5.5 inches screen
▶ Keyboard	7 keys to enter menus and adjust manually on Data logger on site
▶ External Power	210~220VAC / Battery: 12V,7Ah (Rechargeable/36h of continuous work)
▶ Power consumption	up to 70mA and 120mA depending on component configuration
▶ Environmental conditions	Temperature: -30 ~ +60°C, humidity: 0-100%
▶ Degree of body protection	IP55
▶ Installation	Rackmount industrial enclosure
▶ Dimensions	453 x 337 x 153.5 mm
▶ Weight	5kg

ROHS   CE

SAA-EN-0139-9805-PB-01