

ICG100

Intelligent Datalogger / Controller With Gsm Communication



OVERVIEW

ICG 100 Intelligent Dataloggers/ Controller with GSM interface can be used for a wide variety of applications.

ICG100 accepts 8 analog channels, 8 digital inputs which can also be used as flow inputs, 8 Relay outputs for real world control, a GSM Quad band modem builtin and a RS485 interface for interfacing external instruments.

The analog inputs can be field configurable for 4-20mA or 0-5V using jumper settings. The digital inputs can be configured as flow inputs by user at the field. ICG100 has 8 relay outputs which handles upto 10A currents at 230VAC. Datalogging is standard in this model with provision to upload through server via GSM/GPRS interface. SMS can be sent to field personnel on the occurrence of programmed events.

ICG100 is installed with a inbuilt QUAD BAND GSM MODEM for data transfer to the central monitoring station. ICG100 can be completely controlled from central monitoring station including the relay outputs. This controller is ideal for real world data gathering and control applications.

FEATURES

- ▶ 16 Character 2 line Alphanumeric LCD with Backlit control
- ▶ Advanced Microcontroller based Signal processing
- ▶ Internal Memory to store Records
- ▶ 4-20mA / 0-5V / 0-10V Inputs
- ▶ 8 Relay Outputs
- ▶ 8 Digital / Flow Inputs
- ▶ Internal RTC with auto leap year correction
- ▶ Keys for programming the instrument on field.
- ▶ Inbuilt GSM Quad Band Modem
- ▶ GSM Communication to central monitoring station through GPRS.
- ▶ GSM Communication to 10 mobile numbers through SMS.
- ▶ On demand SMS, GPRS.
- ▶ Mode Selection through programming.
- ▶ Independent Log interval and Communication Interval.
- ▶ Any Service provider SIM card interface
- ▶ Panel Mount enclosure
- ▶ FOTA Update



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SPECIFICATIONS

Indication	16 Character 2 line Alphanumeric LCD with BackLight control
Power Supply	18-30VDC
Power Consumption	2 Watt maximum
Digital / Flow Inputs	8
Digital Inputs	Pulse rate 200Hz Max, TTL input
Analog Inputs	8
Analog Input Type	4-20mA / 0-5V / 0-10V Factory Settable
Max. Operating Temp.	50 °C
Storage Temperature	0 - 80 °C
Humidity	0 - 80 Non Condensing
Accuracy	± 0.1% of Full Scale
Program Variables	Saved in non-volatile EEPROM. No battery backup necessary
Data Retention	100 Years Maximum
Programming Method	From keypad provided in the instrument / GPRS
RTC & EEPROM	Saves input processed date to EEPROM at time intervals specified by the user. Saves a maximum of 8000 records with date time stamp
Housing	Panel mount ABS Plastic (192mm x 96mm x 60mm)
GSM Communication	GPRS Communication to the server and SMS communication to field person Inbuilt GSM Quad Band Modem
Modem Frequency	Quad Band
Transmit Power	Class 4 (2W) at GSM 850 and E-GSM Class 1 (1W) at DCS and PCS GPRS GPRS multislot class 10 Multislot class 2 support PBCCH Support Coding schemes CS1 to CS4 SIM Interface 1.8V / 2.9V interface Communication protocol GSV Proprietary protocol over TCP/IP over GPRS



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