

CFL100

FLOW DATA LOGGER WITH GSM COMMUNICATION



OVERVIEW

CFL100 series flow meters are extremely versatile flow meters that can be used for a wide variety of applications. These meters offer extreme reliability and low cost for flow measurement and logging. CFL100 series flow Data loggers can be used for water. These meters can also be used for line sizes from 0.5" to 48".

Microprocessor based instrumentation ensures accurate readings for both rate of flow indication and total flow indication. A number of programmable features including In-line calibration are standard. All the parameters are saved in a non volatile EEPROM memory which doesn't need any external battery. There is an advanced power fail feature by which even if there is any power failure the Total Flow reading is automatically saved to memory and resumes with the same value after Power On. Advanced models can offer relay outputs for signals exceeding rate of flow or total flow set points. Programmable pulse output models are also available in addition to the industry standard 4-20mA output. CFL100 Flow data logger has an RTC and external EEPROM to save flow rate and total flow and time of events. A maximum of 10000 records can be saved at time intervals specified by user in program menu.

CFL100 has a direct printer interface which can print to a printer through RS232 port. This printing takes place at regular time intervals or user programmed time intervals. Advanced flow data logger can work in GSM Communication mode which transmits data through GSM modem either through SMS, GPRS, Data Call or by all the three programmable by user.

FEATURES

- ± 1 % of full scale Accuracy
- Rate of Flow, Total Flow
- 16 Chr. 2 Line Backlit LCD Display
- Micro-controller signal processing
- 16 Chr. 2 Line Backlit LCD Display
- Programmable Relay Outputs
- Variety of Sensor Fittings
- RTC for Real Time clock
- 64k EEPROM for data storage up to 10000 records
- Stored data in the format of date and time of Total Flow and Rate of Flow
- Direct interface to a printer
- Prints at regular or user specified time intervals
- GSM Communication for data transfer from Flow Logger to Remote Station
- GSM communication through SMS, GPRS or Data Call
- User configurable settings for time interval, SMS, GPRS and Data Call
- Field Programmable through four keys



SPECIFICATIONS

| | |
|----------------------------|--|
| Indication | 16 Character 2 line Alphanumeric LCD |
| Power supply | 220 VAC \pm 15 %, 8-24V AC/DC (Factory Preset) |
| Power Consumption | 1 Watt maximum |
| Flow Range | Flow rate corresponding to 0 to 3000 pulses per second input |
| Max. Operating Temperature | 70 °C |
| Storage Temperature | 0 – 80 °C |
| Humidity | 0 – 80 non condensing |
| Accuracy | + - 0.1% of full scale |
| Relay Output Rating | 24 VDC at 1A maximum |
| Program Variables | Saved in non-volatile EEPROM. No battery backup necessary. Data retention 100 years maximum |
| Programming Method | From keypad provided in the instrument |
| RTC & EEPROM | Saves Total flow and Rate of flow to External EEPROM at time intervals specified by the user.Saves a maximum of 10000 records(Rate of flow ,Total flow , Time and Date of Event occurrence). |
| Housing | Panel mount ABS Plastic (96mm x 96mm x 110mm) |
| GSM Communication | <ol style="list-style-type: none">1. GSM Communication to central monitoring station through GPRS, Data Call, short Message Service2. User can select the mode from programming options3. User can program 10 phone numbers to which data will be sent through SMS4. User can select either of the three modes or all the three modes for data transmission5. User can demand the controller for the present values whenever necessary by sending a SMS to the controller for which the controller in turn replies with the values.6. User can Program the time interval for which the data transmission must take place7. After successful Data transmission records will be cleared automatically8. User can demand for the Total Flow values for specified date's through SMS. |
| Printer interface | Direct interface to a printer using RS232 Serial port |

