ANALOGUE INPUT MODULE

Product Description:

GS-1600 is a highly versatile and economical module having Analog Inputs with RS485 / Ethernet port for online communication. It is an ideal solution for SCADA applications in Process Industries. GS - 1600 can be used along with PLC's thus reducing project cost substantially. Analog input to Gas Detection System can be mA / Thermocouple or Voltage different for each channel.

The unit has seven segment LED display for displaying process value, thus providing local indication to the operator. The Alarm / Control status of each channel is indicated on front LEDs.

Serial port RS485 - 2 wire with Modbus RTU protocol or Ethernet with MODBUS TCP is provided. This feature makes Gas Detection System compatible with all the standard SCADA software and PLC's used in Industry.

Optional
Internal relay output 1 or 2 for common alarm.
External relay output 8 or 16 for Individual alarm / Alarm & Trip / Control.
Ethernet communication facility with MODBUS TCP protocol.

Product Features & Specifications:
• Gas Sampling by Natural diffusion
• Detection Alarm level :   10% LEL (2000 PPM)
• Preset Alarm Levels
• Auto Calibrated
• Low Response Time
• Semiconductor sensor is used
• PFC Relay NO or NC PFC O/P
• Fire Proof Enclosure is used.

Gas Detection System GS - 1600

Technical Specifications:

Input	0 - 20 mADC, 4-20mA, 0-1VDC and 0-4VDC for each channel. Combination factory set)	**Channels**	Max 16 Channels in step of 4 Channels.
Disply	7 Segment RED LED, 2 - Digit Channel no. 5 - Digit Process Value with sign	**Keyboard**	4 Keys tactile keyboard.
Resolution	12 Bit. Volt 0.001; mA- 0.01	**Scan Rate**	125 msec per channel (16 channels in 2 seconds)
Accuracy	± 0.5% of FSR ±1 LSD	Scaling	Scaling for mA and Voltage inputs through keyboard.
Display Update Rate	Display Update rate and Display scroll mode programmable through keyboard.	**LED Indications**	LED indications for Control output status and Serial communication.
Serial Port	Optically isolated RS485 - 2 wire port with MODBUS RTU protocol. Ethernet port optional.	**Alarm Output (Optional)**	1 or 2 common alarm relay output, contact rating 230 VAC,1 Amp. Confirm relay logic at the time of ordering.
Control Output (Optional)	8 or 16 nos external relay outputs used as a) 1 Relay per channel with Alarm / Control logic b) 2 Relay per channel (max 8 channels) with alarm-trip logic. External relays can be operated from Gas Detection System also. Confirm relay logic at the time of ordering	**Supply**	230 VAC / 110 VAC ±10 %, 50 Hz

Applications:

- Various control room
- Chemical storage room
- GAS pipe installation areas
- Chemical Industry
- OIL & GAS refinery Industry
- Battery Bank Room
- Hotel & Home Kitchen, etc.