



Highlights

- Enhanced Display Range : -19,999 to +99,999 Counts
- Programmable Resolution : 1 / 0.1 / 0.01 / 0.001
- 4 Programmable Alarms with Optional Relay Outputs
- Retransmission Output (0/4-20 mA or 0-5/10 V)

Features

- User Selectable DC Linear Inputs : mA/mV/V
- Programmable Input Signal Conditioning (Digital Filter & Zero Offset)
- 24 VDC @ 30 mA Transmitter Excitation Supply Voltage
- RS485 MODBUS/RTU Serial Communication Port
- DIN Standard Dimensions (mm) : 96(H) X 96(W) X 100(D)
- Flame-proof Enclosure (Gas Group IIA & IIB) Available

Specifications

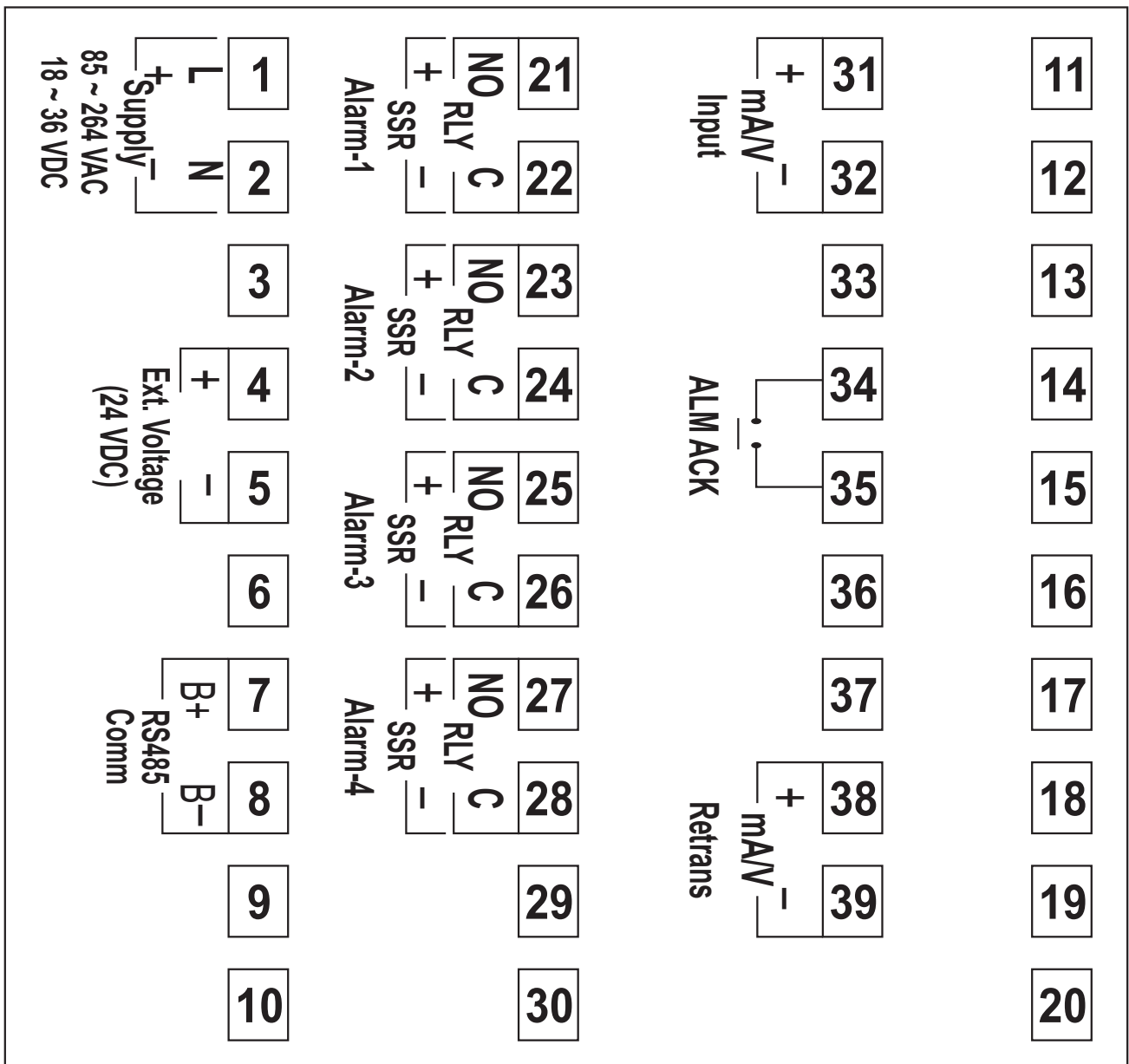
Display	
Digital Readout	Upper Readout : 5 digits, 0.5" Bright Red LED, 7 Segment Lower Readout : 5 digits, 0.5" Luminous Green LED, 7 Segment
Status Indicators	4 Red LEDs (3mm Round)
Keys	
Type	6 Tactile Switches
Functions	PAGE, DOWN, UP, ENTER, OPR, ACK
Sensor / Signal Input	
Type (User Programmable)	DC Current : 0-20 mA, 4-20 mA DC Voltage : 0-50 mV, 0-200 mV 0-1.25 V, 0-5 V, 0-10 V, 1-5 V
Accuracy	± 0.25% of reading ± 1 LSD
Display Range	-19999 to +99999 Counts
Display Resolution (User Programmable)	1 / 0.1 / 0.01 / 0.001 Count
Zero Offset	User Adjustable over Full Range
ADC	17 Bits Sigma-Delta ($\Sigma\Delta$)
Sampling Time	200mS (5 Samples per Second)
Input Resistance	> 8 MOhm
Common Mode Rejection	> 100dB at 50/60 Hz
Signal Conditioning	L-C Analog Filter with Programmable Digital Low-Pass Filter

Alarms	
Numbers	4, Independent
Programmable Parameters	Mode : Process Low, Process High Logic : Normal, Reverse Hysteresis : 1 to 3000 Unit Counts Inhibit : No, Yes Latch : No, Yes
Outputs (Optional)	Relay Change-over Contacts or SSR Drive (Jumper Selectable) Output-1 (OP-1) for Alarm-1, Output-2 (OP-2) for Alarm-2 Output-3 (OP-3) for Alarm-3, Output-4 (OP-4) for Alarm-4
Retransmission	
Signal Type (Output-5)	DC Volts (0-5/10 V) or DC Current (0/4-20 mA)
PV Range	User Settable Through 'Range Low' and 'Range High' Parameters
Outputs	
Relay	Contact Type : Potential-free Change-over Contacts Contact Rating : 5A Resistive @ 120/240 Vac Contact Life : > 5,00,000 Operations at Rated Voltage / Current
SSR Drive	> 4.2 VDC into 1KOhm Minimum
DC Linear	Voltage : 0-5V, 0-10V (into 1KOhm Minimum) Current : 0-20mA, 4-20mA (into 500 Ohm Maximum)
Serial Communication	
Port	RS485, 2-wire, Half Duplex, Start-Stop Synchronized
Protocol	Modbus RTU
Baud Rate	Settable : 4800, 9600, 19200, 38400, 57600
Parity	Settable : None, Even, Odd
Max. Units per Loop	31
Max. Distance	1200 Metres
Power Supply	
Type	Switch Mode (SMPS)
Line Voltage	Standard : 85~264 VAC, 50/60Hz Optional : 18~36 VDC
Consumption	5VA Max
Physical	
Mounting	Plug-in with Panel Mounting Clamps
Overall Dimensions	96(H) X 96(W) X 100(D), mm
Panel Cutout	92(H) X 92(W), mm
Terminals	Screw Type
Weight	400 gm, Appx.

Environmental

Operating Ambient	0~55°C & 5~90%RH Non-condensing
Storage Temperature	-10 to +70 °C
EMC Standards	EN50081-2 & EN 50082-2 Generic Stds for Industrial Environment
Safety Standards	Meets EN61010, Installation Catagory II
Atmospheres	Not Suitable for use in Corrosive or Explosive Atmospheres. The Panel in which the Instrument is Mounted must be free of Electrically Conductive Pollution.

Back Panel Terminations



Ordering Code

Input*		Output 1		Output 2		Output 3		Output 4		Retrans		Power Supply		Options	
LV	Linear Voltage	0	None	0	None	0	None	0	None	0	None	0	85~264 VAC	N	None
LC	Linear Current	1	Relay**	1	Relay**	1	Relay**	1	Relay**	3	0-5/10V	1	18~36 VDC	S	Serial Port
		2	SSR**	2	SSR**	2	SSR**	2	SSR**	4	0/4-20 mA				

Example Code

LC-1-0-0-0-4-0-S

DC Current Input, Alarm-1 Relay, Alarm-2 None, Alarm-3 None, Alarm-4 None,
Retrans 0/4-20mA, 85~264 VAC Supply, Serial Port

* Input type is user settable through appropriate jumper settings. The ordering code only implies the factory settings at the time of dispatch.

** Relay and SSR selection is jumper settable. The ordering code only implies the factory settings at the time of dispatch.