

FEATURES

- **HIGH BRIGHTNESS 0.8" LED DISPLAY**
RANGE : -19999 ~ 99999 ; DECIMAL POINT SELECTABLE
- **DISPLAY RANGE PROGRAMMABLE**
- **20 POINTS LINEARIZATION SELECTABLE**
- **SQUARE ROOT FUNCTION AVAILABLE FOR ANALOG INPUT OF FLOW MEASURING**
- **ACCURACY :**
±0.1%F.S. ±1 digit (DC / POTENTIOMETER / RESISTOR / PT-100 / LOAD CELL)
±0.2%F.S. ±1 digit (AC)
- **Max. HOLD / DATA HOLD / RESET / 2 ~ 4 ALARMS (Hi or Lo) PROGRAMMABLE / ANALOG OUTPUT (15 bit resolution) RS-485 COMMUNICATION OPTIONAL**
(The above options can exist together)
- **HIGH SAFETY NON-FLAMMABLE CASE (PC) , HIGH SAFETY**
- **CE APPROVAL**



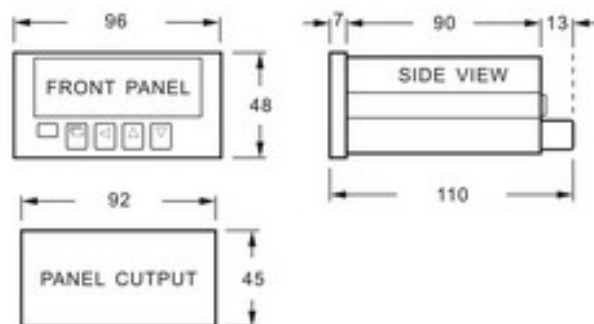
FRONT PANEL & KEY FUNCTIONS



SPECIFICATION

Display Screen	High brightness red LED 20.3mm (0.8")
Display Range	-19999 ~ 99999
Zero Adjustment	-19999 ~ 99999
Sampling Time	16 cycles / sec
Over Range Indication	doFL / ioFL or -doFL / -ioFL
Polarity Indication	Automatic with "-" indication
Parameters Setting	Push buttons
Back Up Memory	EEPROM
Analog output resolution	15 bit
Output response time	≤250 msec (0 ~ 90%)
Output capability	Voltage output : ≤20mA Current output : ≤10V
Communication Accuracy	RS-485 modbus RTU mode ±0.1%F.S. ±1 digit (DC / Potentiometer / Resistor / RTD / Load Cell) ±0.2%F.S. ±1 digit (AC)
Alarm Action	"≥ (Hi) on" or "≤ (Lo) on"
Alarm Run Delay Time	0 ~ 99 sec
Relay Contact	AC 277V / 7A ; DC 30V / 7A
Input Impedance	Voltage : ≥2V for 20KΩ / V ≤2V for ≥20KΩ Current : ≥0.2A at 100mV ≤0.2A at 1V
Power Supply	AC / DC 100 ~ 240V DC 12 / 24 / 30 ~ 90V
Power Consumption	8.5VA (All functions output)
Surge Test	1.5KVac / 1min (Input / Power)
Temperature Coefficient	100ppm / °C (0 ~ 60°C)
Operating Temperature	0 ~ 60°C
Operating Humidity	20 ~ 90% RH (non-condensing)
Storage Temperature	-10 ~ 70°C
Storage Humidity	20 ~ 90% RH (non-condensing)

DIMENSION (mm)



MODEL SELECTIONS

ITEMS	CODE	SPECIFICATIONS
① MODEL	221	Nonlinearity meter
② OUTPUT (Retransmission)	A	None (Not required)
	B	4 ~ 20mA DC
	S	To be specified
③ INPUT RANGE	-00	0 ~ 20 μA
	?	?
	-60	To be specified
④ ALARM FUNCTION	0	Not required (220A)
	2	2-SPDT , Relay output
	4	4-SPST-NO , Relay output
	5	To be specified
⑤ POWER SUPPLY	- A	AC 100 ~ 240V
	- B	DC 24V
	- C	To be specified

INPUT RANGE SELECTION

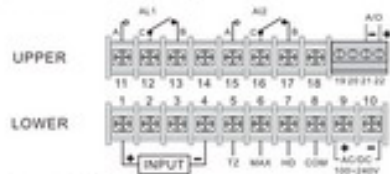
Table 1

CODE	Current	CODE	Voltage	CODE	Potentiometer	CODE	Resistor	CODE	RTD (PT-100)	CODE	Load Cell
00	0 ~ 20 μ A	10	0 ~ 50mV	20	500 Ω ~ 5K Ω	30	0 ~ 10 Ω	40	-50 ~ 50 $^{\circ}$ C	50	1mV / V EX.5V
01	0 ~ 200 μ A	11	0 ~ 5V	21	5K Ω ~ 10K Ω	31	0 ~ 100 Ω	41	-100 ~ 100 $^{\circ}$ C	51	2mV / V EX.5V
02	0 ~ 2mA	12	1 ~ 5V	22	10K Ω ~ 100K Ω	32	0 ~ 1K Ω	42	-200 ~ 200 $^{\circ}$ C	52	3mV / V EX.5V
03	0 ~ 20mA	13	0 ~ 10V	23	100K Ω ~ 1000K Ω	33	0 ~ 10K Ω	43	0 ~ 300 $^{\circ}$ C	53	1mV / V EX.10V
04	0 ~ 200mA	14	0 ~ 36V	24	1000K Ω ~ 1M Ω	34	0 ~ 100K Ω	44	0 ~ 400 $^{\circ}$ C	54	2mV / V EX.10V
05	4 ~ 20mA (Without Excitation)	15	0 ~ 300V	25	Specified	35	Specified	45	0 ~ 500 $^{\circ}$ C	55	3mV / V EX.10V
		16	0 ~ 600V					46	0 ~ 600 $^{\circ}$ C	56	Specified
06	4 ~ 20mA (DC 24V Excitation)	17	Specified					47	Specified		
07	Specified										

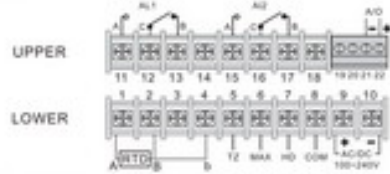
WIRING CONNECTIONS

2 ALARMS OUTPUT

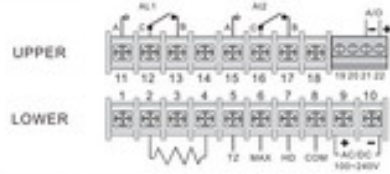
- Voltage, current (AC / DC)



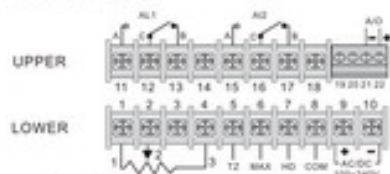
- Temperature (RTD)



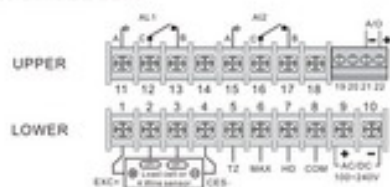
- 2 Wire Resistor



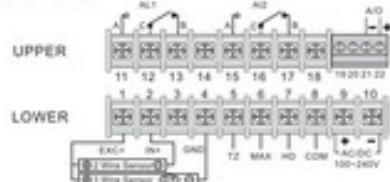
- 3 Wire Resistor



- 4 Sensor or load cell

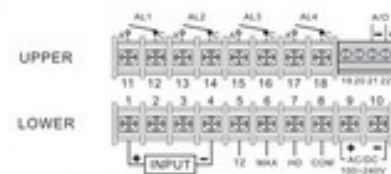


- 2/3 Wire sensor

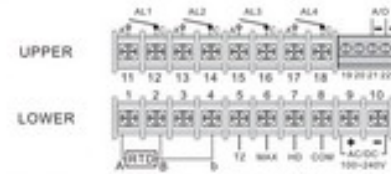


4 ALARMS OUTPUT

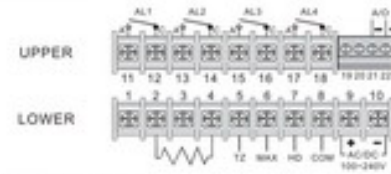
- Voltage, current (AC / DC)



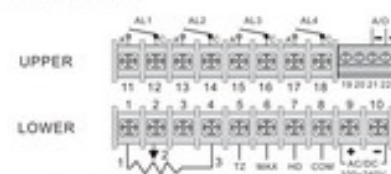
- Temperature (RTD)



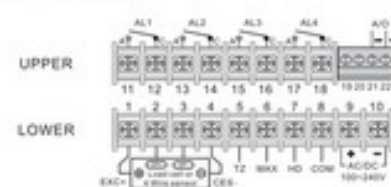
- 2 Wire Resistor



- 3 Wire Resistor



- 4 Sensor or load cell



- 2/3 Wire sensor

