

# 5 DIGITAL 20 POINTS LINEARIZATION METER with 2~4 ALARMS / ANALOG OUTPUT

**LZM**

## FEATURES

- Accuracy:  $\pm 0.1\%$  F.S.  $\pm 1$  digit (DC / Potentiometer / Resistor / PT-100 / Load Cell)  
 $\pm 0.2\%$  F.S.  $\pm 1$  digit (AC)
- Measuring AC, DC Voltage / AC, DC Current / Potentiometer / Resistor / PT-100 / Load Cell
- High brightness 0.8" LED display range: -19999~99999; decimal point selectable
- Display range programmable; 20 points linearization selectable
- 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 stability, non-flammable case (PC), high safety
- CE approval



## ORDER INFORMATION: LZM - [Code 1] [Code 2] - [Code 3] - [Code 4] [Code 5]

| Code 1 | Input Type           | Code 2 | Voltage | Code 2 | Current | Code 2 | Potentiometer               | Code 2 | Resistor        | Code 2 | RTD (PT-100)          | Code 2 | Load Cell    | Code 3 | Aux. Power    | Code 5 | Analog Output |
|--------|----------------------|--------|---------|--------|---------|--------|-----------------------------|--------|-----------------|--------|-----------------------|--------|--------------|--------|---------------|--------|---------------|
| D      | DC                   | V1     | 0~50mV  | A1     | 0~20uA  | P1     | 500 $\Omega$ ~10K $\Omega$  | I1     | 0~10 $\Omega$   | T1     | -50~50 $^{\circ}$ C   | L1     | 1mV/V EX.5V  | A      | AC/DC100~240V | N      | None          |
| A      | AC AVG               | V2     | 0~5V    | A2     | 0~200uA | P2     | 10K $\Omega$ ~100K $\Omega$ | I2     | 0~100 $\Omega$  | T2     | -100~100 $^{\circ}$ C | L2     | 2mV/V EX.5V  | B      | DC 12V        | A      | 4~20mA        |
| M      | AC TRMS              | V3     | 1~5V    | A3     | 0~2mA   | P3     | 100K $\Omega$ ~1M $\Omega$  | I3     | 0~1K $\Omega$   | T3     | -200~200 $^{\circ}$ C | L3     | 3mV/V EX.5V  | C      | DC 24V        | V      | 0~10V         |
| P      | 3 Wire Potentiometer | V4     | 0~10V   | A4     | 0~20mA  | PO     | Option                      | I4     | 0~10K $\Omega$  | T4     | 0~600 $^{\circ}$ C    | L4     | 1mV/V EX.10V | D      | DC 30~90V     | O      | Option        |
| I      | 2 Wire Resistor      | V5     | 0~36V   | A5     | 0~200mA |        |                             | I5     | 0~100K $\Omega$ | TO     | Option                | L5     | 2mV/V EX.10V |        |               |        |               |
| T      | RTD (PT-100)         | V6     | 0~300V  | A6     | 4~20mA  |        |                             | IO     | Option          |        |                       | L6     | 3mV/V EX.10V |        |               |        |               |
| L      | Load Cell            | V7     | 0~600V  | A7     | 0~2A    |        |                             |        |                 |        |                       | LO     | Option       |        |               |        |               |
| 2      | 2, 3 Wire Sensor     | VO     | Option  | A8     | 0~5A    |        |                             |        |                 |        |                       |        |              |        |               |        |               |
| 4      | 4 Wire Sensor        |        |         | A9     | 0~10A   |        |                             |        |                 |        |                       |        |              |        |               |        |               |
|        |                      |        |         | AO     | Option  |        |                             |        |                 |        |                       |        |              |        |               |        |               |

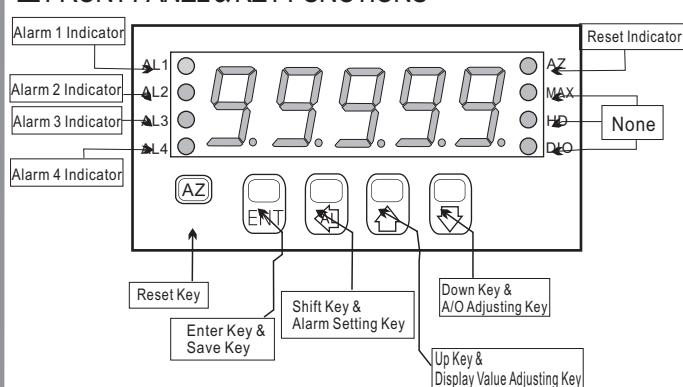
| Code 4 | Alarm Output   |
|--------|----------------|
| N      | None           |
| R2     | 2 Relays       |
| R3     | 3 Relays       |
| R4     | 4 Relays       |
| O2     | 2 Open Collect |
| O3     | 3 Open Collect |
| O4     | 4 Open Collect |

- \*\*1: 2 wire type offers excitation power DC24V for 2 wire (Loop Power) pressure, temperature, humidity sensors using.
- 2: Please specify the input signal and display value, inquiry salespersons for special type.
- 3: Load Cell type of excitation power DC5V can have 2 load cell in parallel; DC10V only can offer 1 load cell to use.
- 4: 3 Relay type only offers A(NormalOpen) output. O.C. (Open Collect) offers NPN of C.E. output.

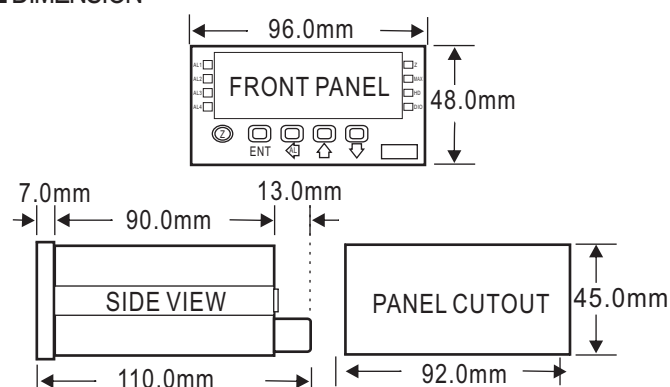
## SPECIFICATION

- ◆ Accuracy:  $\pm 0.1\%$  F.S.  $\pm 1$  digit (DC / Potentiometer / Resistor / PT-100 / Load Cell)  
 $\pm 0.2\%$  F.S.  $\pm 1$  digit (AC)
- ◆ Display Screen: High brightness red LED; 20.3mm(0.8")
- ◆ Sampling Time: 16 cycles / sec
- ◆ Display Range: -19999~99999
- ◆ Zero Adjustment: -19999~99999
- ◆ Over Range Indication: doFL / ioFL or -doFL / -ioFL
- ◆ Polarity Indication: Automatic with "-" indication
- ◆ Parameters Setting: Push buttons
- ◆ Back Up Memory: EEPROM
- ◆ Alarm Action: " $\geq$  (Hi) on" or "< (Lo) on"
- ◆ Alarm Run Delay Time: 0~99 sec
- ◆ Relay Contact: AC 277V / 7A; DC 30V / 7A
- ◆ Analog Output Resolution: 15 bit
- ◆ Output Response Time: <250 msec (0~90%)
- ◆ Output Capability: Voltage Output: <20mA  
Current Output: <10V
- ◆ Communication: RS-485 Modbus RTU mode
- ◆ Baud Rate: 19200 / 9600 / 4800 / 2400 bps
- ◆ Temperature Coefficient: 100ppm /  $^{\circ}$ C (0~60 $^{\circ}$ C)
- ◆ Operating Temperature: 0~60 $^{\circ}$ C
- ◆ Operating Humidity: 20~90% RH (non-condensing)
- ◆ Storage Temperature: -10~70 $^{\circ}$ C
- ◆ Storage Humidity: 20~90% RH (non-condensing)
- ◆ 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)
- ◆ Input Impedence: Voltage:  $>2V$  for 20K $\Omega$  / V;  $\leq 2V$  for  $>200M\Omega$   
Current:  $\geq 0.2A$  at 100mV;  $<0.2A$  at 1V

## FRONT PANEL & KEY FUNCTIONS



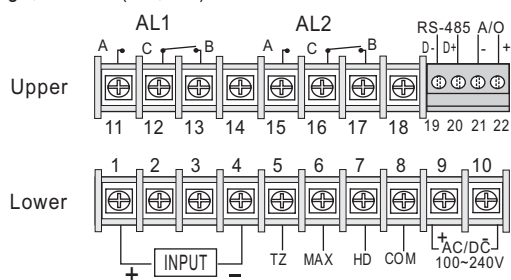
## DIMENSION



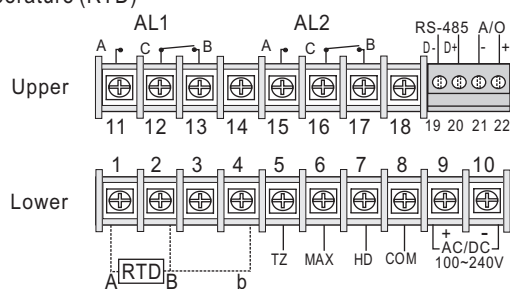
## ■ WIRING CONNECTION

### 2 Alarms Output:

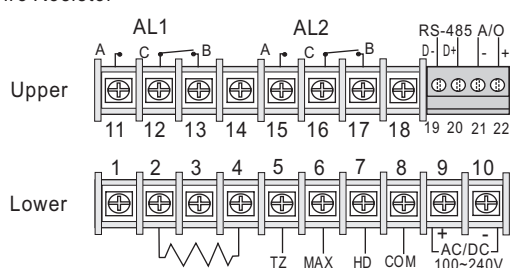
- Voltage, Current (AC, DC)



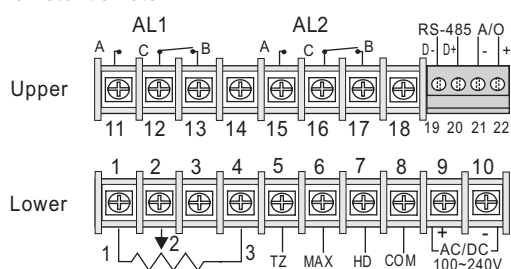
- Temperature (RTD)



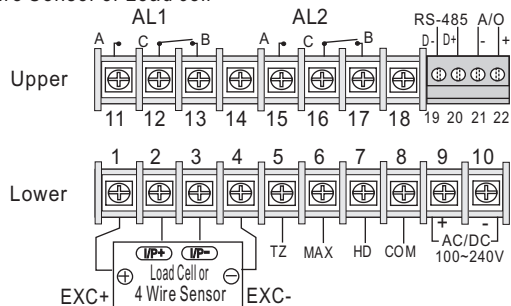
- 2 Wire Resistor



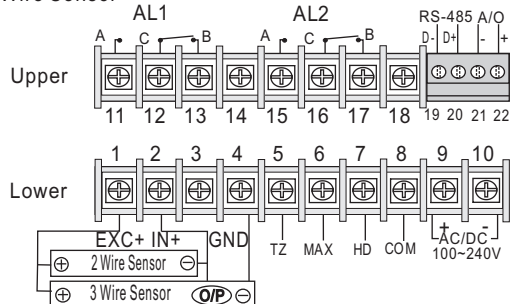
- 3 Wire Potentiometer



- 4 Wire Sensor or Load cell

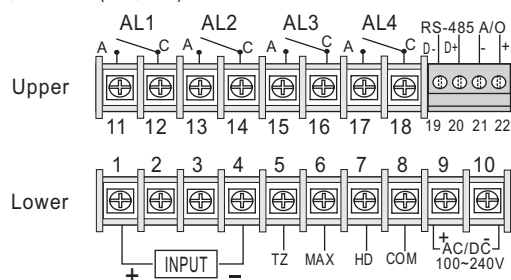


- 2,3 Wire Sensor

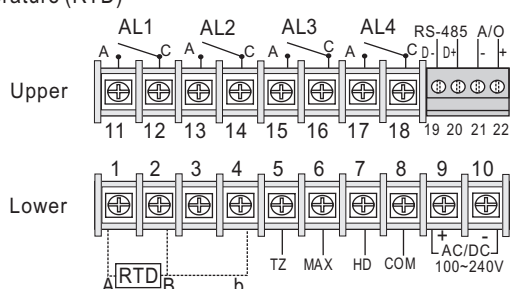


#### 4 Alarms Output:

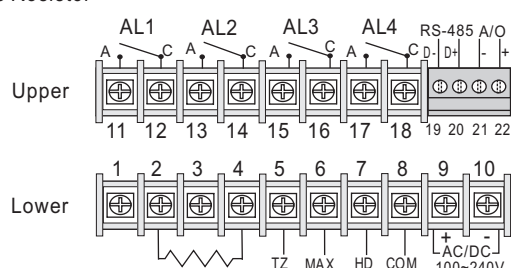
- Voltage, Current (AC, DC)



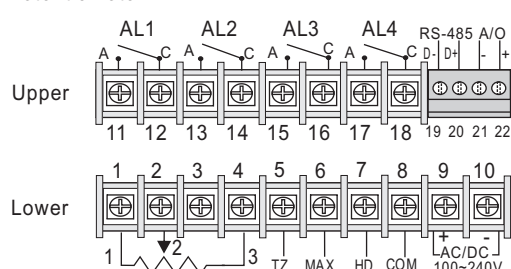
- Temperature (RTD)



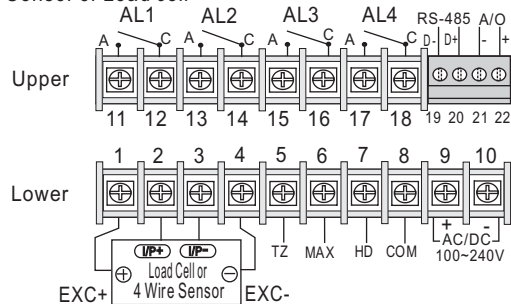
- 2 Wire Resistor



- 3 Wire Potentiometer



- 4 Wire Sensor or Load cell



- 2,3 Wire Sensor

