



The Newest

FEATURE

- Measuring Voltage or Current for DC / AC / TRMS
- Accuracy: $\pm 0.04\%$ or $\pm 0.1\%$; Display range: -19999~29999
- User function, easily programmable via the top panel
- 1 Relay output, Analogue output and RS 485 communication port available
- CE Approved

ORDERING INFORMATION

LBST-VA14-



| CODE | DC/AC/TRMS | CODE | VOLTAGE INPUT | CODE | CURRENT INPUT | CODE | RELAY O/P | CODE | ANALOG O/P | CODE | RS485 PORT | CODE | AUX. POWER |
|------|----------------|------|-----------------|------|--------------------|------|-----------|------|---------------------------|------|------------|------|------------|
| D | DC measuring | V1 | 0 ~ 199.99 mV | A1 | 0 ~ 199.99 μ A | N | None | N | None | N | None | A1 | AC115V |
| A | AC measuring | V2 | 0 ~ 1.9999 V | A2 | 0 ~ 1.9999 mA | R1 | 1 Relay | V | 0(1) ~ 5 V 0 ~ 10 V | 8 | RS 485 | A2 | AC230V |
| T | TRMS measuring | V3 | 0 ~ 19.999 V | A3 | 0 ~ 19.999 mA | | | I | 0 ~ 10 mA 0(4) ~ 20 mA | | | D25 | DC 20~56 V |
| | | V4 | 0 ~ 199.99 V | A4 | 0 ~ 199.99 mA | | | | | | | | |
| | | V5 | 0 ~ 300.0 V | A5 | 0 ~ 1.9999 A | | | | | | | | |
| | | V6 | 0 ~ 500 V | A6 | 0 ~ 1.0000 A | | | | | | | | |
| | | VA | 0 ~ 50mV | A7 | 0 ~ 5.000 A | | | | | | | | |
| | | VB | 0 ~ 60mV | AO | Specify A input | | | | | | | | |
| | | VO | Specify V input | | | | | | | | | | |

SPECIFICATION

| Measuring Range DC / AC / TRMS | Input Impedance | Measuring Range DC / AC / TRMS | Input Impedance |
|--------------------------------|---------------------------|--------------------------------|-------------------------|
| Voltage | 0~50/60 mV $\geq 5M$ ohm | Current | 0~199.99 μ A 1K ohm |
| | 0~199.99 mV $\geq 5M$ ohm | | 0~1.9999 mA 100 ohm |
| | 0~1.9999 V $\geq 1M$ ohm | | 0~19.999 mA 10 ohm |
| | 0~19.999 V $\geq 1M$ ohm | | 0~199.99 mA 1 ohm |
| | 0~199.99 V $\geq 1M$ ohm | | 0~1.9999 A 0.05 ohm |
| | 0~300.0 V $\geq 2M$ ohm | | 0~5.000 A 0.02 ohm |
| | 0~500.0 V $\geq 2M$ ohm | | |

- Calibration: System calibration by top key
- Accuracy: DC: $\leq \pm 0.04\%$ of FS $\pm 1C$; AC: $\leq \pm 0.1\%$ of FS $\pm 1C$
- Response time: ≤ 100 msec.(when the AvG = "1")
- Operating
- Operation key: 4 keys for Enter(Function) / Shift(Escape) / Up / Down
- Security function: 4 digits password and 3 function group lock level
- Display & functions
- LED: Measuring value: 0.28" green high-brightness LED
Relay output indication: square red LED
RS 485 communication: square red LED
- Friendship function: Low.cut / Average / Digital Filter
- Display functions: Present Value / Maximum Hold / Minimum Hold / Write to display by RS485 command

Scaling

- Input range function: Input Low & High range settable from 0.00~100.00%
- Scaling function: High & Low scale settable from -19999~+29999
- Decimal point: Settable from 0 / 0.0 / 0.00 / 0.000 / 0.0000

Control functions

- Control relay: 1 Relays SPST(N.O.), 3A/230Vac, 5A/115V
- Relay Output: Energized levels compare with set-points: Hi / Lo
DO function: Energized by RS485 command
Relay Energized Hold: Selectable Low or High Hold
Start delay/Energized & De-energized delay/Hysteresis

Functions:

Analogue output

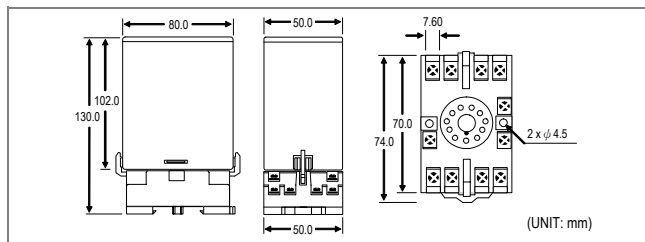
- Accuracy: $\leq \pm 0.1\%$ of F.S.; 16 bits AD converter
- Ripple: $\leq \pm 0.1\%$ of F.S.
- Response time: ≤ 200 msec. (10~90% of input)
- Output range: Specify Voltage or Current
Voltage: 0~5V / 0~10V / 1~5V selectable
Current: 0~10mA / 0~20mA / 4~20mA selectable
0~10V: $\geq 1000\Omega$; 0(4)~20mA: $\leq 600\Omega$ max
Output high, Low & Limit settable

RS 485 communication

- Protocol: Modbus RTU mode
- Baud rate: Selectable 2400/4800/9600/19200/38400

- Data bits: Selectable 7 or 8 bit
- Parity: Selectable Even, odd or none (with 1 or 2 stop bit)
- Device no: Settable 1 ~ 255
- Power
- Power Supply: AC 115 or 230V $\pm 10\%$, 50/60Hz; Optional DC20~56V
- Power consumption: 5VA
- Back up memory: By EEPROM
- Environmental
- Operating temperature: 0~60 °C
- Operating relative Humid.: 20~95 %RH, Non-condensing
- Temperature coefficient: ≤ 100 PPM/C
- Storage temperature: -10~70 °C
- Electrical safety
- Dielectric Strength: AC 2.0 KV for 1 min, Between Power/Input/Output
- Insulation resistance: $\geq 100M$ ohm at 500Vdc
- Isolation: Between Power / Input / Output
- EMC: EN61326
- Mechanical
- Case Materiel: ABS fire-protection (UL 94V-0)
- Mounting: DIN rail mounting
- Terminal block: 11 pin Socket, 10A 500Vac, M2.6, 16~22AWG
- Weight: Under 480g(without socket)

DIMENSIONS



CONNECTION DIAGRAM

