

5-Digit, Microprocessor-based LVDT Meter (with 2--4 alarms, analogue output & RS485)

LVDT-M

FEATURES

- Accuracy: $\pm 0.05\%$ F.S.
- Measuring Distance / Interval / Thickness
- High brightness 0.8" LED display range: -19999~99999; decimal point 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



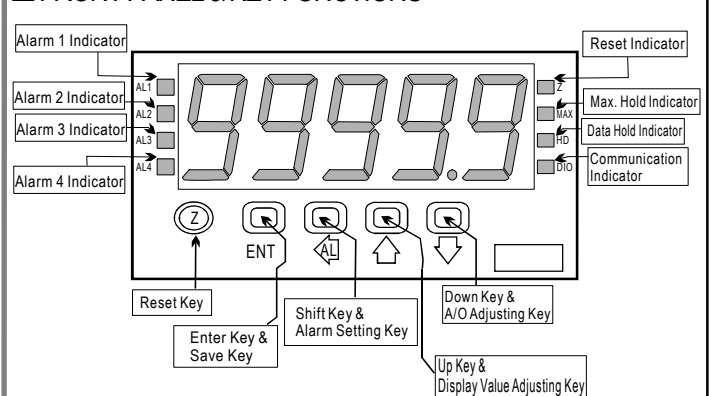
ORDER INFORMATION: LVDT-M- [Code 1] [Code 2] [Code 3] [Code 4] [Code 5] [Code 6]

Code 1	Distance	Code 2	Aux. Power	Code 3	Alarm Output	Code 4	Analog Output	Code 5	RS-485	Code 6	Sensor Type
A	2.5 mm	A	AC/DC100~240V	N	None	N	None	N	None	N	None
B	6.5 mm	B	DC 12V	R2	2 Relays	A	4~20mA	Y	Yes	A	BLV-GM-2.5
C	15 mm	C	DC 24V	R3	3 Relays	V	0~10V			B	BLV-GM-6.5
D	50 mm	D	DC 30~90V	R4	4 Relays	O	Option			C	BLV-GM-15
				O2	2 Open Collect					D	BLV-GM-50
				O3	3 Open Collect						
				O4	4 Open Collect						

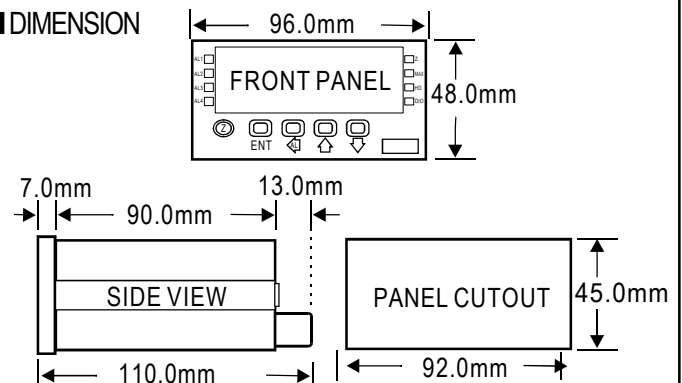
SPECIFICATION

- ◆ Accuracy: $\pm 0.05\%$ F.S.
- ◆ 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 / °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)
- ◆ 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 Ω / V; $\leq 2V$ for >200M Ω
Current: $\geq 0.2A$ at 100mV; <0.2A at 1V

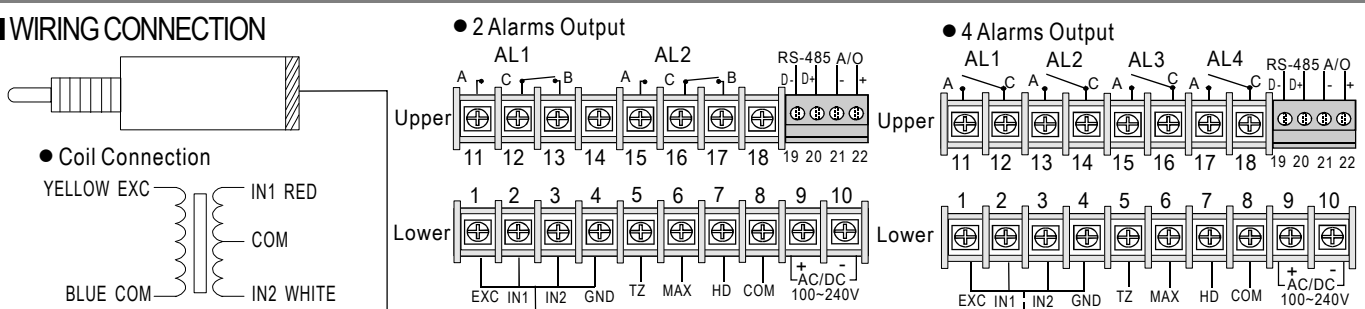
FRONT PANEL & KEY FUNCTIONS



DIMENSION



WIRING CONNECTION



■ SENSOR SPECIFICATION

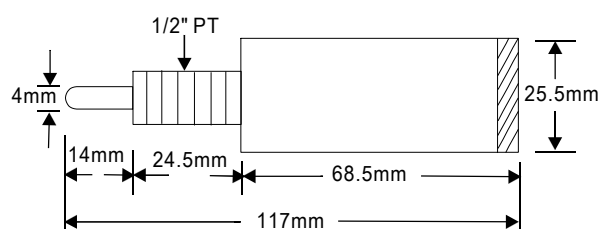
● Model: BLV-GM-2.5

- ◆ Linear Range: ± 0.050 in.
- ◆ Linearity: $\pm 0.3\%$ F.S.
- ◆ Optimum Frequency: 200~3000Hz
- ◆ Output: 1.69~2.07V
- ◆ Primary Impedance: $306\sim 374\Omega$
- ◆ Secondary Impedance: $4250\sim 5750\Omega$
- ◆ Primary DCR: $54.9\sim 73.7\Omega$
- ◆ Secondary DCR: $2185\sim 2955\Omega$
- ◆ Phase Shift: 0~10 degrees
- ◆ Null $\pm 0.6\%$ F.S.

■ SENSOR SPECIFICATION

● Model: BLV-GM-2.5

Measuring Range: 2.5 mm

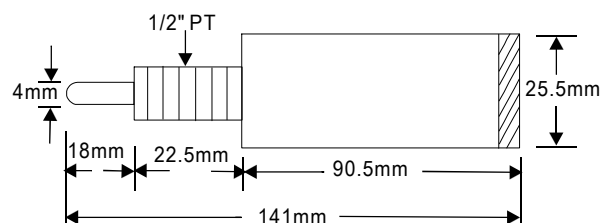


● Model: BLV-GM-6.5

- ◆ Linear Range: ± 0.125 in.
- ◆ Linearity: $\pm 0.25\%$ F.S.
- ◆ Optimum Frequency: 50~1100Hz
- ◆ Output: 1.79~2.19V
- ◆ Primary Impedance: $247\sim 303\Omega$
- ◆ Secondary Impedance: $977\sim 1323\Omega$
- ◆ Primary DCR: $48.0\sim 65.0\Omega$
- ◆ Secondary DCR: $501\sim 679\Omega$
- ◆ Phase Shift: 1~11 degrees
- ◆ Null $\pm 0.3\%$ F.S.

● Model: BLV-GM-6.5

Measuring Range: 6.5 mm

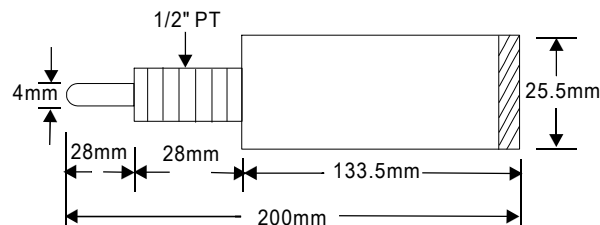


● Model: BLV-GM-15

- ◆ Linear Range: ± 0.300 in.
- ◆ Linearity: $\pm 0.25\%$ F.S.
- ◆ Optimum Frequency: 50~350Hz
- ◆ Output: 2.99~3.65V
- ◆ Primary Impedance: $288\sim 352\Omega$
- ◆ Secondary Impedance: $1466\sim 1984\Omega$
- ◆ Primary DCR: $63.3\sim 85.7\Omega$
- ◆ Secondary DCR: $841\sim 1139\Omega$
- ◆ Phase Shift: -0.5~+9.5 degrees
- ◆ Null $\pm 0.4\%$ F.S.

● Model: BLV-GM-15

Measuring Range: 15 mm



● Model: BLV-GM-50

- ◆ Linear Range: ± 1.000 in.
- ◆ Linearity: $\pm 0.35\%$ F.S.
- ◆ Optimum Frequency: 500~4000Hz
- ◆ Output: 4.27~5.43V
- ◆ Primary Impedance: $6010\sim 7350\Omega$
- ◆ Secondary Impedance: $407\sim 551\Omega$
- ◆ Primary DCR: $910\sim 1232\Omega$
- ◆ Secondary DCR: $384\sim 520\Omega$
- ◆ Phase Shift: -3~+7 degrees
- ◆ Null $\pm 0.5\%$ F.S.

● Model: BLV-GM-50

Measuring Range: 50 mm

