

# 5 DIGITAL MICRO-PROCESS LVDT METER with 1~4 ALARMS / ANALOG OUTPUT / RS-485

# 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



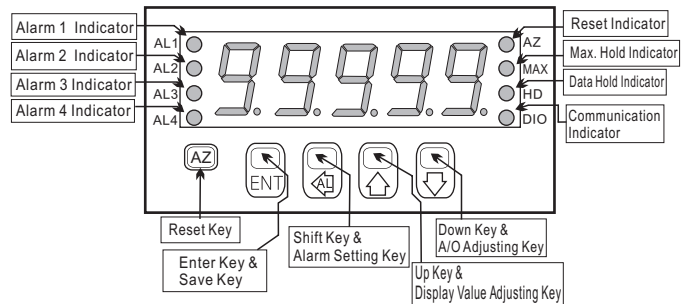
## ORDER INFORMATION: LVDT-M - [Code 1] [Code 2] - [Code 3] - [Code 4] [Code 5] [Code 6]

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						

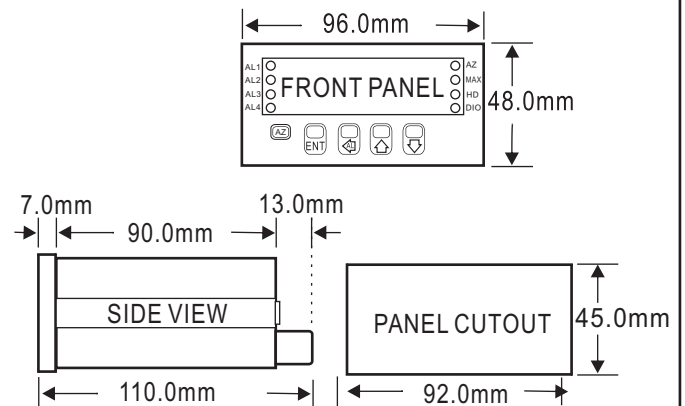
## SPECIFICATION

- ◆ Accuracy:  $\pm 0.05\%$  F.S.
- ◆ Display Screen: High brightness red LED; 20.3mm(0.8")
- ◆ Sampling Cycle: 16 cycles / sec (AVG=1)
- ◆ 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 Hysteresis Range: 0~9999
- ◆ 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: 38400 / 19200 / 9600 / 4800 bps
- ◆ Parity Check: n.8.2. / n.8.1. / odd / even
- ◆ Temperature Coefficient: 100ppm /  $^{\circ}\text{C}$  (0~60 $^{\circ}\text{C}$ )
- ◆ Operating Temperature: 0~60 $^{\circ}\text{C}$
- ◆ Operating Humidity: 20~90% RH (non-condensing)
- ◆ Storage Temperature: -10~70 $^{\circ}\text{C}$
- ◆ Storage Humidity: 20~90% RH (non-condensing)
- ◆ Power Supply: AC/DC 100~240V; DC 22~60V
- ◆ Power Consumption: 8.5VA (all functions output)
- ◆ Surge Test: 2KVac / 1min (Input / Power)
- ◆ Input Impedence: Voltage: >2V for 20K $\Omega$  / V;  $\leq 2\text{V}$  for >200M $\Omega$   
Current:  $\geq 0.2\text{A}$  at 100mV; <0.2A at 1V
- ◆ Dimensions: 96(W)\*48(H)\*110(D) mm
- ◆ Weight: About 500 g

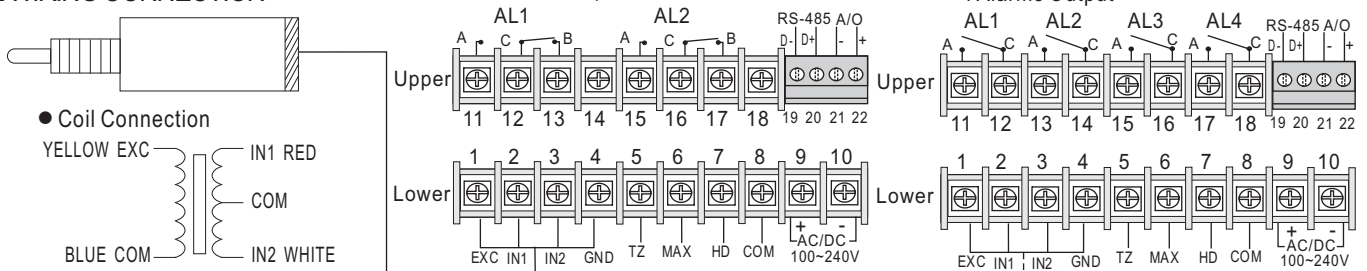
## FRONT PANEL & KEY FUNCTIONS



## DIMENSION



## WIRING CONNECTION



■ SENSOR SPECIFICATION

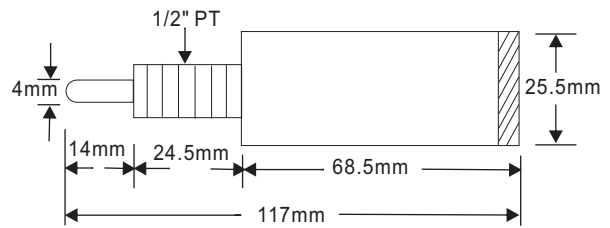
● Model: BLV-GM-2.5

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

■ SENSOR SPECIFICATION

● Model: BLV-GM-2.5

Measuring Range: 2.5 mm

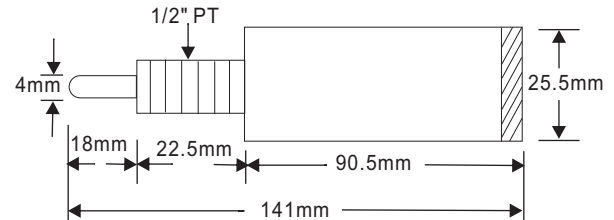


● Model: BLV-GM-6.5

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

● Model: BLV-GM-6.5

Measuring Range: 6.5 mm

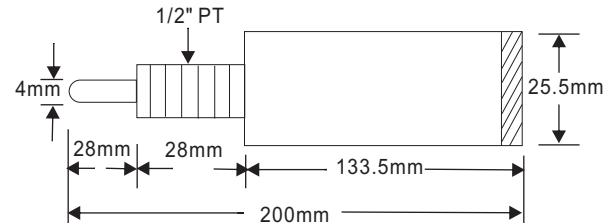


● Model: BLV-GM-15

- ◆ Linear Range:  $\pm 0.300$  in.
- ◆ Linearity:  $\pm 0.25\%$  F.S.
- ◆ Optimum Frequency: 50~350Hz
- ◆ Output: 2.99~3.65V
- ◆ Primary Impedance: 288~352 $\Omega$
- ◆ Secondary Impedance: 1466~1984 $\Omega$
- ◆ Primary DCR: 63.3~85.7 $\Omega$
- ◆ Secondary DCR: 841~1139 $\Omega$
- ◆ 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:  $\pm 1.000$  in.
- ◆ Linearity:  $\pm 0.35\%$  F.S.
- ◆ Optimum Frequency: 500~4000Hz
- ◆ Output: 4.27~5.43V
- ◆ Primary Impedance: 6010~7350 $\Omega$
- ◆ Secondary Impedance: 407~551 $\Omega$
- ◆ Primary DCR: 910~1232 $\Omega$
- ◆ Secondary DCR: 384~520 $\Omega$
- ◆ Phase Shift: -3~+7 degrees
- ◆ Null  $\pm 0.5\%$  F.S.

● Model: BLV-GM-50

Measuring Range: 50 mm

