

3½ Digit Miniature LCD Volt Meter Module GM-235A/B

FEATURES:

- Single 5VDC operation.
- Decimal point selectable
- Self-mountable
- High input impedance > 100 M ohm
- 200mV and 2V full scale input sensitivity (A and B version)
- Pin to pin compatible with GM-335A/B
- Crystal-controlled oscillation for excellent noise rejection
- 0.4 inch (10.16mm) digit height
- Single-ended or differential input format

APPLICATIONS:

- Digital power supply
- Digital measuring equipment
- Digital strain gauge instrument

GENERAL DESCRIPTION:

The GM-235A/B are a complete digital voltmeter module in a very compact package incorporating a dual-slope analog-to-digital converter, a 100mV reference with 200mV full scale input sensitivity-A version, and 1V reference with 2V full scale input sensitivity-B version.

The use of large-sized L.C.D. makes the module easily readable from distance away. The single 5VDC operation enables the module to be easily operated with the most commonly used system power source.

Auto-zeroing is provided by the circuit itself, so no zero adjustment is required. Automatic input polarity indication and overrange indication by displaying 1 --- are all available.

The GM-235A/B and GM-335A/B are pin to pin compatibility (interchangeability) allows the users to select the display type of module (L.C.D or L.E.D.) freely without modifying the system circuitry.

ORDERING INFORMATION

Model	Full scale	Accuracy	Input Format
GM-235A	200mV	0.1%±1dgt	differential or single-ended
GM-235B	2V	0.1%±1dgt	differential or single-ended

OPERATION SPECIFICATION

ABSOLUTE MAXIMUM RATINGS

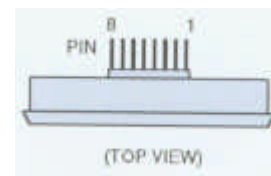
Operating Voltage..... 5V±5%
 Operating Temperature..... 0 to 50 (32 to 122)
 Storage Temperature..... -10 to 70 (14 to 158)



ELECTRICAL CHARACTERISTICS TA=25 , RH below 80%

CHARACTERISTICS	MIN	TYP	MAX	UNIT
Power Supply Voltage	4.75	5	5.25	V
Power Supply Current		3	5	mA
Sampling Rate		2.5		Reading/sec.
Accuracy		0.1%±1dgt		%±digits
Input Impedance	100			M ohm
Input Leakage Current		1	10	PA
Temperature Coefficient		100		PPM

PIN OUT DEFINITIONS



PIN	SYMBOL	DESCRIPTION
1	V+	+5V Power supply
2	GND	Ground
3	IN HI	200mV or 2V full scale input, "IN HI" is lower than "IN LO", display will show negative.
4	IN LO	
5	DP ₁	Decimal point select. The decimal point will be shown if connected to DP.com and will be off if kept floating.
6	DP ₂	
7	DP ₃	
8	DP.com	