

MONROE 287B

Performs manual or automatic decay and balance tests for periodic verification of ionization equipment.



The Monroe 287B ionizer performance analyzer performs manual or automatic decay and balance tests for periodic verification of ionization equipment. It then stores the results and averaged decay times for up to ten manual tests and up to ten complete automatic test sequences. Temperature and relative humidity are displayed real-time and recorded with the test data.

All instrument functions are controlled by four push buttons. In decay mode, a built-in high voltage generator charges the plate to over 1050 volts. During testing, the plate will discharge toward zero in the presence of ionization. The elapsed time of decay between 1000 volts and 100 volts is displayed. In the balance mode, isolated plate voltage, test duration, and \pm peak voltages are displayed.

PRODUCT HIGHLIGHTS

- All-in-one instrument: measures, displays and stores voltage, decay time, temperature and humidity
- Test AC or DC room ionizers, laminar flow, overhead or benchtop ionizers or ionized compressed gas systems as simply as pushing a button
- Exceeds current requirements of ANSI/ESD SP3.3 for Periodic Verification of Air Ionizers
- Test balance and decay
- Low cost / performance ratio
- Hand held, battery operated
- Microprocessor driven
- Built-in self test include battery check and tests for functional errors

AT A GLANCE

Charger

± 1100 volts, selectable polarity

Fieldmeter Range

± 1250 V, 1 V resolution

Charge Plate Size

43 x 102 mm (1.7 x 4 in)

TECHNICAL DATA

Performance Specifications		
Charger	±1100 volts, selectable polarity	
Fieldmeter	Measurement Range	±1250 V, 1 V resolution
	Accuracy	±5% of reading, ±2% typical
	Zero Drift	<±4 V in 90 s, ±2 V typical
Trip Points	Fixed 1000 V and 100 V	10 to 990 volts in 1V steps
Charge Plate	Size	43 x 102 cm (1.7 x 4 in)
	Capacitance	» 25 pf
	Self Discharge	<10% of full scale in 200 s
Display	2.4 x 0.63 in, 2 x 16 LCD	
Timer	200.0 s max, 0.1 s resolution	

Sensor Specifications	
Humidity	20 to 80% ±3% of reading
Temperature	±1°C typical
Operating Temperature	25°C, ±10°C

Mechanical Specifications	
Dimensions (H x W x D)	206 x 102 x 48 mm (8.1 x 4 x 1.9 in)
Weight	0.63 kg (1 lb 6 oz)
Battery	9 V NEDA #1604A or equivalent alkaline (>40 hour life or >1300 charge cycles). Longer life may be achieved by using 9 V lithium

REFERENCE NUMBERS

Included Accessories	
	Operator's Manual
	Carrying Case
	Patch Cord with Alligator Clip

Optional Accessories	
Trek 287/22C	Plate Adapter (6 x 6 in): This optional adapter enables the model IPA 287B to perform very comparably to charged plate monitors designed to ESD Association standard No. 3.



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