



University of Massachusetts Amherst

Department of Procurement

Request for Bids:

**Fluke 287 - Handheld True-rms Electronics Logging Multimeter
with TrendCapture**

per the attached specifications or approved equal

RFB# AA08-RH-2783

Bid Opening Date – May 29, 2008 @ 1:00 p.m.

Specifications : Fluke 287 - Handheld True-rms Electronics Logging Multimeter with TrendCapture

Specifications		
Voltage DC	Accuracy	0.025 %
	Range and Resolution	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0V
Voltage AC	Accuracy	0.4 %(true-rms)
	Range and Resolution	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0V
Current DC	Accuracy	0.06 %
	Range and Resolution	500.00 µA, 5000.0 µA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A
Current AC	Accuracy	0.6%(true-rms)
	Range and Resolution	500.00 µA, 5000.0 µA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A
Temperature (excluding probe)	Accuracy	1.0 %
	Range and Resolution	-200.0 °C to 1350.0 °C (-328.0 °F to 2462.0 °F)
Resistance	Accuracy	0.05 %
	Range and Resolution	500.00 Ω, 5.0000 kΩ, 50.000 kΩ, 500.00 kΩ, 5.0000 MΩ, 50.00 MΩ, 500.0 MΩ
Capacitance	Accuracy	1.0 %
	Range and Resolution	1.000 nF, 10.00 nF, 100.0 nF, 1.000 µF, 10.00 µF, 100.0 µF, 1000 µF, 10.00 mF, 100.00 mF
Frequency	Accuracy	0.005% + 5
	Range and Resolution	99.999 Hz, 999.99 Hz, 9.9999 kHz, 99.999 kHz, 999.99 kHz
Additional functions/features	Multiple on-screen displays	Yes
	True-rms AC bandwidth	100 kHz
	DBV/dBm	Yes
	Conductance	50.00nS
	Continuity beeper	Yes
	Battery/Fuse access	Battery / Fuse
	Peak	250 µS
	Elapse time clock	Yes
	Time of day clock	Yes
	Min-Max-Avg	Yes
	Duty Cycle	0.01 % to 99.99 %
	Pulse Width	0.025 ms, 0.25 ms, 2.5 ms, 1250.0 ms
	Hold	Yes
	Isolated Optical Interface	Yes
	Auto/Touch Hold	Yes
	Reading memory	Yes
	Log to PC	Yes
	Interval/Event Logging	Yes
	Logging Memory	Up to 10,000 readings
Environmental Specifications		

Operating Temperature	-20 °C to +55 °C
Storage Temperature	-40 °C to +60 °C
Relative Humidity	0% to 90% (0 °C - 37 °C) 0% to 65% (37 °C - 45 °C), 0 to 45 % (45 °C - 55 °C)
Electromagnetic Compatability	EMC EN6 1326-1
Vibration	Random vibration per MIL-PRF-28800f Class 2
Shock	1 meter drop per IEC/EN 61010-1 2nd edition
Safety Specifications	
Overvoltage category	CAT III 1000 V / CAT IV 600 V safety rated
Agency Approvals	CSA, UL, TÜV, CE
Mechanical & General Specifications	
Maximum voltage between any terminal and earth ground	1000V
Size	(HxWxL 22.2 cm x 10.2 cm x 6 cm (8.75 in x 4.03 in x 2.38 in)
Weight	870.9 g (28 oz)
Battery Life	100 minimum, 200 hours in logging mode
Battery type	6 AA alkaline batteries, NEDA 15A IEC LR6

Also to include:

- **Manual**
- **6 AA Batteries, installed**
- **TL 71 Silicone Test Leads**
- **Probe Holder**
- **Two AC72 Alligator Clips**
- **Registration Card**
- **Cal Practices Document**
- **CD-ROM Users Manual**
- **Getting Started Manual**
- **Statement of Calibration Practices Document**

Delivery: FOB, Amherst, MA

Deliver to:

**University of Massachusetts
Attn: Francis Caron
Electrical and Computer Engineering
201 Marcus Hall
100 Natural Resources Road
Amherst, MA 01003
Phone: 413-545-4578**