PowerScope Specifications

Measurement Ranges

Voltage:	0 to 600 Vrms (AC or DC)
· Full scale ranges:	12.5V, 25V, 50V, 125V, 250V, 333V, 500V, 1000V
· Sampling rate:	5.12 kHz
Current[1]:	0.5 to 3000 Arms (AC)
· Sampling rate	5.12 kHz
Frequency:	45 to 415 Hz
Impulse:	20 Vpk to 6400 Vpk
· Sampling rate:	4 MHz
Harmonics analysis:	THD and spectral graph, current and voltage
· @ 50 Hz:	To the 40th harmonic
· @ 60 Hz:	To the 33rd harmonic
· @ 400 Hz:	To the 5th harmonic

Measurement Accuracy

RMS voltage:	± 0.2% of range ± 1% of reading or 0.5V whichever is greater, DC or 50, 60, 400 Hz
RMS current:	± 0.3% of full scale ± 1% of reading at 50, 60 Hz ± 0.3% of full scale ± 2% of reading at 400 Hz

Operating Characteristics

Power:	
· AC:	100-277 Vrms at 50 or 60 Hz, 110-277 Vrms at 400 Hz 150 VA max
· DC:	11 – 16 Vdc
Internal UPS:	
· Type:	NiCad batteries, internally rechargeable
· Duration:	5 minutes fully loaded, 15 minutes typical
Temperature and humidity ranges:	
· Operation:	41˚F to 104˚F (5˚C to 40˚C), 35% to 85% RH, noncondensing
· Storage:	-4˚F to 140˚F (-20˚C to 60˚C), 5% to 90% RH, noncondensing

Physical Characteristics

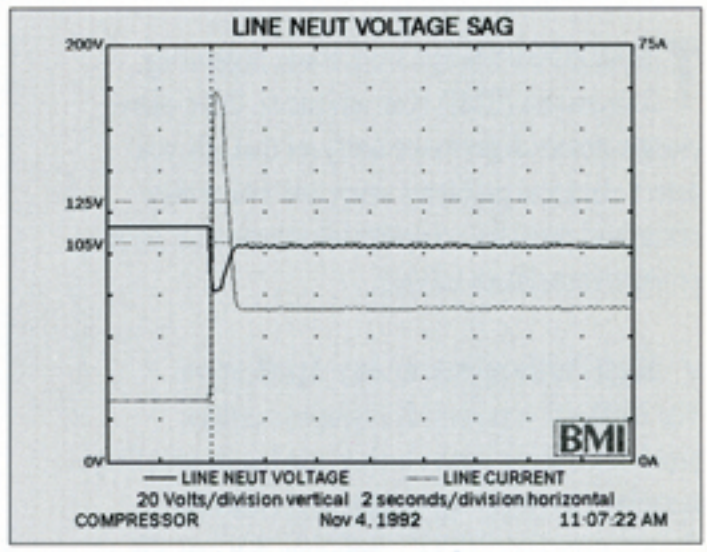
· Dimensions:	6" high by 15" wide by 15.3" deep (15 cm x 38 cm x 39 cm)
· Weight:	28 lbs. (13 kg)

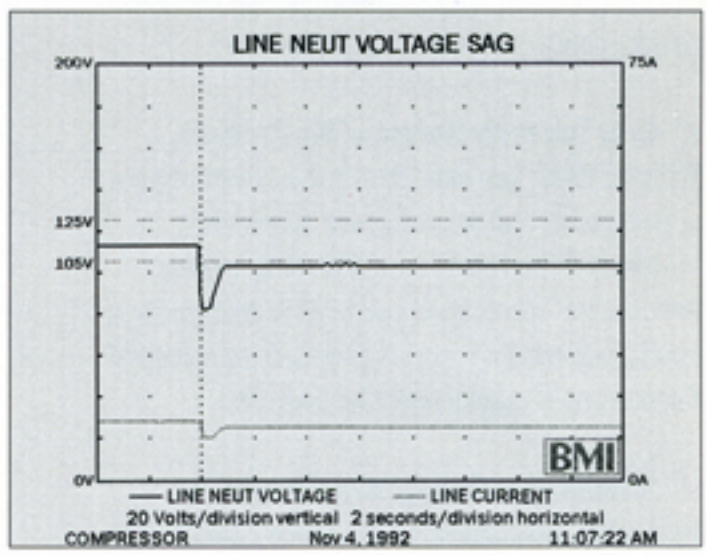
[1] The 8800 PowerScope current range depends upon the BMI SmartProbe™ used:

SmartProbe	Current Range
A-115	0.5-60 Arms
A-116	5-600 Arms
A-120	10-3000 Arms
A-121 (Window type)	0.5-20.0 Arms

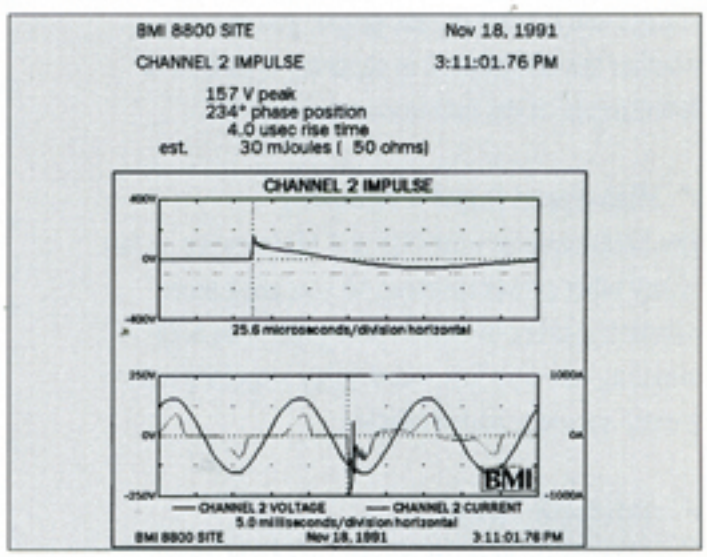
Specifications subject to change without notice.

Printed Reports from the PowerScope





Simultaneous Voltage and Current Graphs. The top graph shows that the offending load is downstream of the monitoring point since an increase in current occurs simultaneously with a decrease in voltage. The graph below shows little or no change in current, indicating the disturbance originates upstream of the monitoring point.



Impulse Graph. When an impulse is detected, the 8800 generates two graphs. The lower graph shows the voltage and the current waveforms before and after the impulse. The upper graph shows the actual impulse, sampled at 4 MHz and automatically zoomed to its best resolution.

BMI Basic Measuring Instruments · 335 Lakeside Drive · Foster City, CA 94404 · USA · PHONE: (415) 570-5355 · FAX: (415) 574-2176 P/N 89002580-Rev. C