

Mains Power Supply Testers — continued

Fluke 39 and 41B



626-399 H = 64, W = 100, L = 234 626-387

- Easy to use tools for harmonics and power management
- Measures true-rms voltage and current
- Views voltage, current and power as waveform, bar graph or numeric values
- Measures power and power factor on single phase or balanced three phase, three conductor, system from one single phase measurement
- One button measurement; no menus
- Display individual harmonics up to the 31
- Minimum, maximum and average recording
- Real time display updates
- Immediate readings of crest factors, power factors, K-VAR and K-Factor with no manual calculations
- Supplied with an 80i-500s ac current probe, test leads, test probes and test clips

Additional features - Fluke 41B

- Storage of up to eight measurement sets of voltage and current
- Isolated serial interface for communications with printer or DOS or Windows® compatible computer
- Also supplied with RS-232 cable and Fluke® software

Voltage (True-rms)

Input	5.0 to 600V (ac +dc)
	5.0V to ±933V peak
Basic accuracy	rms: ±0.5% dc or peak ±2%

Current, with 1mV/A Input (True-rms)

Input range	1.00 to 1000A rms (ac + dc)
	1.0 to 2000A peak
Basic accuracy	rms : ±0.5% + digits + probe specs

Power (Watt and Volt-Amps) with 1M V/A Input

Range	0 to 600kW (kVA) average
Basic accuracy	Active W(KVA) 1% + digits + probe specs Single phase

Harmonics Accuracy

Fundamental to 13 <sup>th</sup> Harmonic	±2% + 2 digits + probe specs for amps & watts
At 31 <sup>st</sup> Harmonic	±8% + 2 digits + probe specs for amps & watts

80i-500s Current Probe Accuracy

1 to 20A ac	±5% + 0.3A
20 to 100A ac	±5%
100 to 500A ac	±2%

Battery type	: 4 alkaline 'C' cells (supplied)
Battery operating time	: 48 hrs typical (continuous, without backlight)

Power Quality Selection Chart

	Fluke 39	Fluke 41B	Fluke 43
Volts, Amps Display	Yes	Yes	Yes
Measure Vrms, Arms, frequency	- one at a time	- One at a time	- simultaneously
Measure Watts, VA, VAR, PF, DPF, KF	+	+	+
3-phase balanced load measurement	Automatic	Automatic	Manual
Number of Harmonics displayed	31	31	51
Measure Harmonics, THD, Phase	+	+	+
On-screen cursors	+	+	+
Record Min/Max/Average	+	+	+
Display 'Sags, Swells & Outages'	+	+	+
Transient capture & display	+	+	+
Display motor inrush current	+	+	+
Volts vs Amps (X/Y) display	+	+	+
20 MHz oscilloscope			+
On-screen 'chart recorder' mode			+
Capacitance/Ohms/diode measure			+
Realtime clock/timestamping of events			+
No. of data (.CSV) memories	none	8 data sets = 80 screens	none
No. of screen (.BMP) memories	none	8 data sets = 80 screens	10
PC software & interface cable	n/a	included	included
Battery type/operating time	alkaline/48hr	alkaline/48hr	Rechargeable Ni-Cad
IEC 1010 CatIII - 600v	+	+	+
Warranty (years)	1	1	3
Carry Case	option	option	included

T283X

	Order Code	Price Each			
		1+	2+	12+	24+
Fluke 39	626-399				
Fluke 41B	626-387				
Soft carrying case	524-347				
Current probe, 1000A	524-359				

Power Analysers  
Single and Three Phase



- PM100 single phase power analyser
- PM300 three phase power analyser
- Power factor, peak current measurement
- Harmonics to the 50th
- Power consumption
- Inrush current using PS1000
- Watts to 0.4% accuracy
- Volts and amps to 0.2% accuracy
- Front panel menu driven
- Languages include English, French, German, Italian and Chinese
- Range of plug in interfaces available (please note only one interface can be plugged in at a time)
- 717-1419 RS232 interface card
- 717-1407 GP1B IEEE 488 interface card
- 717-1420 data logger and alarm interface
- 717-1456 power switch PS1000 (inrush current measurement)
- 717-1444 ballast current transformer
- External shunt input

Measurement Parameters	V, A, W, VA, VAR, PF, ApK, VpK, Acf, Vcf, Freq
V Accuracy	Inrush current, Fundamentals, Harmonic Analysis
A Accuracy	±0.1% reading ±0.1% range ±0.1% kHz ±10mV
W Accuracy	±0.1% reading ±0.1% range ±0.2% kHz ±1mA
Bandwidth	±0.2% reading ±0.2% range ±0.3% kHz ±5mW
Voltage Range	DC to 250kHz
Current Range	2Vrms to 1000Vpk
Harmonic (V, A, W)	20mA to 20A rms (200 Apk)
Integrator	To the 50th
Power	W-h, VA-h, VAR-h, A-h, PF, Timer
	Dual range 90-120V, 195-265V

T359

	Order Code	Price Each		
		1+	3+	5+
PM 300	717-1330			
PM 100	717-1328			
GP1B Card	717-1407			
RS232 Card	717-1419			
Alarm Card	717-1420			
PS1000	717-1456			
C.T. Ballast	717-1444			

Network Analyser  
AR5



AR5 series networks analyzers are fully programmable measuring instruments that measure and record in memory all the electrical parameters from any electric power system. These instruments are equipped with three voltage channels and another three current channels to carry out the measurement of any parameter from either balanced or unbalanced three-phase power systems.



Power supply circuit

Voltage:	230V a.c.
Tolerance:	+10% to 15%
Frequency:	50 to 60 Hz
Internal battery:	5 hours continuous mode
	24 hours in non-continuous mode
Consumption:	5VA
Working temp:	0 to 50°C
External battery charger:	

Voltage measuring

Measuring range :	20 to 850 V a.c.
Phase-phase or phase-neutral measurement	
Other voltages through voltage transformers	
Frequency:	45 to 65Hz

Current measuring

Measuring range clamps range up to 5000 A	
Programmable clamp ratio	
Measuring units: automatic scale	
Internal clock with rechargeable battery	