

POWER QUALITY ANALYSERS AND POWER MEASUREMENT COMPARISON GUIDE

MODEL	Fluke 434	Fluke 435	Fluke 437	Hioki PW3198	Hioki PW3360-20	CT Labs Vecto II	Metrel MI 2892 Power Master	Metrel MI 2885 Master Q4	Metrel MI 2885 Master Q4
SUPPLIER	Fluke			Power Parameters			Emona Instruments		
WEBSITE	www.fluke.com.au			www.parameters.com.au			www.emona.com.au		
2/3 WIRE ANALYSIS	✓	✓	✓	✓	✓	✓	✓	✓	✓
3/4 WIRE ANALYSIS	✓	✓	✓	✓	✓	✓	✓	✓	✓
LINE/PHASE VOLTAGE DIRECT INPUT	1-1,000V	1-1,000V	1-1,000V	600V AC/DC	600V AC	600V AC/DC	1,000V RMS L-N	1,000V RMS L-N	1,000V RMS L-N
LINE CURRENT DIRECT INPUT	Arms (AC+DC) transducers	Arms (AC+DC) transducers	Arms (AC+DC) transducers	3,000A AC	3,000A AC	3,000A AC	A1037 adaptor	A1037 adaptor	A1037 adaptor
VT INPUT	✓	✓	✓	✓	✓	✓	✓	✓	✓
CT INPUT	✓	✓	✓	✓	✓	✓	✓	✓	✓
ROGOWSKI COIL	✓	✓	✓	✓	✓	✓	✓	✓	✓
POWER MEASUREMENT (KW)	W-MW	W-MW	W-MW	✓	✓	✓	✓	✓	✓
VOLTAGE SYMMETRICAL COMPONENTS	✓	✓	✓	✓	×	✓	✓	✓	✓
CURRENT SYMMETRICAL COMPONENTS	✓	✓	✓	✓	×	✓	✓	✓	✓
VOLTAGE HARMONICS	50th order	✓	✓	50th order	40th order	64th order	50th order	50th order	50th order
CURRENT HARMONICS	50th order	✓	✓	50th order	40th order	64th order	50th order	50th order	50th order
INDIVIDUAL PHASE ANGLES BETWEEN CURRENT AND VOLTAGE HARMONICS	×	✓	✓	✓	✓	✓	×	×	×
VOLTAGE INTERHARMONICS	0-2.5kHz	0-2.5kHz	✓	0-2.5kHz	×	0-3.2kHz	1-50th	1-50th	1-50th
CURRENT INTERHARMONICS	0-2.5kHz	0-2.5kHz	✓	0-2.5kHz	×	0-3.2kHz	1-50th	1-50th	1-50th
FLICKER MEASUREMENT (PST/PLT)	×	✓	✓	✓	×	✓	✓	✓	✓
10/12 CYCLE AGGREGATION OF DATA	✓	✓	✓	✓	×	✓	✓	✓	✓
IEC/AS 61000-4-7 HARMONICS COMPLIANT	✓	✓	✓	✓	✓	✓	✓	✓	✓
IEC/AS 61000-4-15 FLICKER COMPLIANT	×	✓	✓	✓	×	✓	✓	✓	✓
COMMUNICATIONS	USB, RS-232	USB, RS-232	USB, RS-232	USB, Ethernet	USB, Ethernet	USB, Ethernet, GPRS	USB, Ethernet	USB, Ethernet	USB, Ethernet

Miro PQ25	Miro PQ35	Miro PQ45	SATEC/ PM180	SATEC/ EM720	SATEC/ PM175EH	Sonel PQM-710/711	Keysight Technologies	Newtons 4th
CHK Power Quality			SATEC (Australia)			Pacific Test	Keysight Technologies	Fuseco Power Solutions
www.chkpowerquality.com.au			www.satec-global.com.au			www.pacifictest.com.au	www.keysight.com	www.fuseco.com.au
✓	✓	✓	✓	✓	✓	✓	✓	✓
x	✓	✓	✓	✓	✓	✓	✓	✓
60-600V AC	61-600V AC	62-600V AC	480V L-N/832V L-L	480V L-L	480V L-N/832V L-L	760V	1,000V (RMS), 2,000V peak	✓
Input via clamp on CT or Rogowski coils. Up to 3,000A	Input via clamp on CT or Rogowski coils. Up to 3,000A	Input via clamp on CT or Rogowski coils. Up to 3,000A	5A	5A	5A	Clamp transducer	2A (RMS)/6A (peak) or 50A (RMS)/100A (peak)	1,000A
✓	✓	✓	✓	✓	✓	✓		✓
✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	x	x	x	✓		✓
✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	Voltage asymmetry	✓	✓
✓	✓	✓	✓	✓	✓	Current asymmetry	✓	✓
100th order	100th order	100th order	63rd order	63rd order	50th order	50th order	✓	417th order
100th order	100th order	100th order	63rd order	63rd order	50th order	50th order	✓	417th order
✓	✓	✓	✓	✓	✓	✓	✓	✓
0-5kHz	0-5kHz	0-5kHz	✓	✓	✓	✓	✓	✓
0-5kHz	0-5kHz	0-5kHz	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓		✓
✓	✓	✓	✓	✓	x			✓
✓	✓	✓	✓	✓	✓	✓		✓
✓	✓	✓	✓	✓	✓	✓		✓
WiFi, 3G, 4G	WiFi, 3G, 4G	WiFi, 3G, 4G	RS-485, USB, Ethernet	RS-485, USB, Ethernet	RS-485, USB, Ethernet	GPRS	VNC web interface, USB, LAN	RS-232, USB, LAN, GPIB