

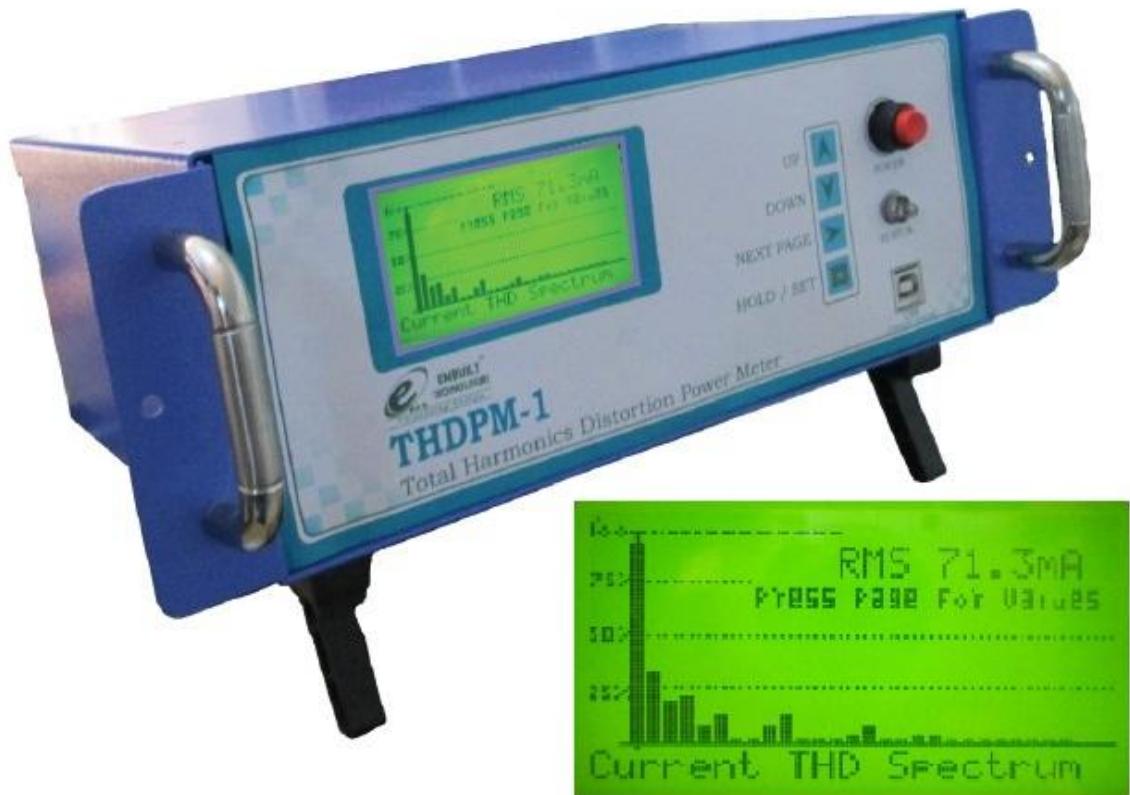
Comparison between THDPM-1 and SPEA-1

Description	THDPM-1	SPEA-1
Size(W x H x Depth)	(255x115x200)mm	(233x133x311)mm
Weight	1.5Kg	2.5Kg
Accuracy Class	0.2	0.2
Voltage Range	5-500Volts	5-500Volts
Current Range (Any One)	5mA-2A 10mA-5A 20mA-10A	5mA-2A 10mA-5A 20mA-10A 50mA-20A
Features-		
Display	Graphic LCD	Seven Segment LED (RED)
Harmonics Spectrum in Display	Yes	No
Alarm Limits Setting in Meter	Yes	Yes
SMART-QC interface	Yes	Yes
Pass/Fail	Yes	Yes
Software Interface	Yes	Yes
Real Time Clock	No	Yes
SD Card Support	No	Yes
Data Logging in SD Card	No	Yes
Production Report in SD Card	No	Yes
Parameters-		
Vrms, Arms	Yes	Yes
PF, W, Hz	Yes	Yes
Vthd, Athd	Yes	Yes
V,A Harmonics(1-55 th)	Yes (Odd Harmonics)	Yes (Even + Odd Harmonics)
Average, Peak, FF, CF	No	Yes
Wh	No	Yes

Notes:

1. Normally for LED driver testing and Bulb testing 2A range is the best choice. You can test from Half Watt to around 500 Watt and that is sufficient for most cases.
2. Both models provide interface to SMARTQC for DC analysis, as well as USB with software for production reports. SPEA-1 has advantage that you do not require computer in production environment.

THDPM-1

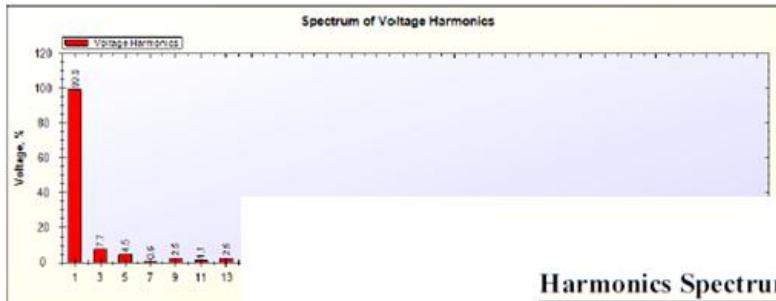


SPEA-1



Sample Report of Spectrum (available in both models)

Voltage Harmonic Spectrum

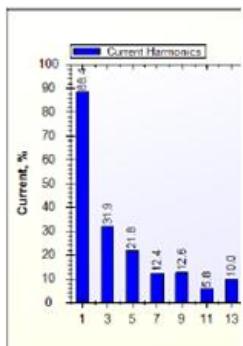


Notes- Sample Voltage Spec

Harmonics Spectrum Table

Harmonic Order	Voltage	% VTHD	Amps THD	Amps THD%	Notes
rms	227.60 V		0.03 A		
1	226.50 V	99.52 %	22.16 mA	88.39 %	RMS Value
3	17.47 V	7.68 %	8.00 mA	31.93 %	Fundamental Harmonics
5	10.31 V	4.53 %	5.46 mA	21.78 %	
7	1.34 V	0.59 %	3.12 mA	12.43 %	
9	5.66 V	2.49 %	3.15 mA	12.58 %	
11	2.45 V	1.08 %	1.44 mA	5.76 %	
13	5.59 V	2.46 %	2.51 mA	10.00 %	
15	3.74 V	1.64 %	2.27 mA	9.05 %	
17	0.53 V	0.23 %	0.81 mA	3.24 %	
19	1.68 V	0.74 %	0.51 mA	2.04 %	
21	0.62 V	0.27 %	1.13 mA	4.50 %	
23	0.29 V	0.13 %	1.18 mA	4.72 %	
25	0.16 V	0.07 %	1.07 mA	4.28 %	
27	0.21 V	0.09 %	0.37 mA	14.8 %	
29	0.19 V	0.08 %	0.42 mA	16.7 %	
31	54.20 mV	0.02 %	0.27 mA	1.08 %	
33	0.12 V	0.05 %	57.43 A	0.23 %	
35	0.12 V	0.05 %	70.19 A	0.28 %	
37	73.74 mV	0.03 %	0.24 mA	0.96 %	
39	50.57 mV	0.02 %	0.55 mA	2.19 %	
41	29.99 mV	0.04 %	0.41 mA	1.64 %	
43	31.02 mV	0.01 %	0.23 mA	0.92 %	
45	18.73 mV	0.01 %	0.16 mA	0.64 %	
47	13.29 mV	0.01 %	0.30 mA	1.21 %	
49	35.46 mV	0.02 %	0.17 mA	0.67 %	
51	25.58 mV	0.01 %	0.31 mA	1.23 %	
53	16.72 mV	0.01 %	0.26 mA	1.03 %	
55		0.00 %		0.00 %	Bag

Notes- Sample Harmonic Spectrum



Notes- Sample Current Spec