







Meatrol Energy logger comparison table - Summary

	ME435	ME440	Mi550
Photo			
Carry Case	Plastic	Alluminium	Alluminium
			
Robust rubber housing	No	Yes	Yes
Internal memory, export to USB	SD Card	Yes, USB Port	Yes, USB Port
Option to do remote monitoring.	No	Yes	Yes
Harmonics Graph	No	No	Yes
Wave Form Graph	No	No	Yes
Phasor - Phase rotation	No	No	Yes
Unbalance of phase comparison	No	No	Yes
Display peak demand of power and current	No	No	Yes
Show min and max of voltage and frequency	No	No	Yes

Meatrol Energy logger comparison table

FUNCTION LIST				●YES	◎ OPTION	BLANK: NO	
FUNCTION		PARAMETER		ME435	ME440	Mi550	
Specific	5 Rated Current Selectable	100A/600A/1kA/3kA/6kA	100A connect to MRC-24 50mV/kA@50Hz 600A connect to MRC-36 50mV/kA@50Hz 1kA connect to NRC-100 85mV/kA@50Hz 3kA connect to NRC-150 85mV/kA@50Hz 6kA connect to NRC-200 50mV/kA@50Hz	●	●	●	
	Display	TFT color display		●	●	●	
	Display Size	3.5 inch TFT Display		●	●		
		4.0 inch TFT Display				●	
	Install Style	Handheld Type		●	●	●	
		Panel Type					
		DIN-RAIL Type					
	Power supply	2*2900mAh PANASONIC lithium battery			●	●	
		4*AA battery		●			
		5VDC adaptor		●	●	●	
	Full parameter record	16GB memory	USB DISK download			●	
		SD Card	1GB		●		●
	Communication	Communication protocol	RJ45-Modbus-TCP			●	●
RS485-Modbus-RTU							
Option to do remote logging		Requires external device			◎	◎	

FUNCTION LIST				●YES	◎ OPTION	BLANK: NO
FUNCTION		PARAMETER		ME435	ME440	Mi550
Measurement	Real-Time Parameter	Voltage	Ua Ub Uc,avg	●	●	●
		PE-N Voltage	Ue		●	●
		Current	Ia Ib Ic,avg	●	●	●
		Neutral Current	In		●	●
		Active Power	Pa,Pb,Pc,Psum	●	●	●
		Reactive Power	Qa,Qb,Qc,Qsum	●	●	●
		Apparent Power	Sa,Sb,Sc,Ssum	●	●	●
		Power Factor	PFa,PFb,PFc,avg	●	●	●
		Frequency	Fa,Fb,Fc,avg	●	●	●
	Electric energy measuring	Active Energy	EPa,EPb,EPc,EPsum	●	●	●
		Reactive Energy	EQa,EQb,EQc,EQsum	●	●	●
		Apparent Energy	ESa,ESb,ESc,ESsum	●	●	●
	Demand	Demand (some time ago)	Current Ia Ib Ic,avg	●	●	●
Maximum Demand(Maximum value of Demand)		Active/Reactive/Apparent Power ABCPsum,Qsum,Ssum	●	●	●	
Power Quality	Harmonic	Current harmonic value	ITHDa, ITHDb,ITHDc,	●	●	●
		Current harmonic percentage	ITHDa(%), ITHDb(%),ITHDc(%)	●	●	●
		Voltage harmonic value	UTHDa, UTHDb,UTHDc	●	●	●
		Voltage harmonic percentage	UTHDa(%), UTHDb(%),UTHDc(%)	●	●	●
	Harmonic number display	52 times meanwhile (percentage)			●	●
		5 times meanwhile (percentage)		●		
	Current Unbalance	Each phase, Most Unbalance phase	Ubl(Ia,Ib,Ic,Iwst)	●	●	●
	Voltage Unbalance	Each phase, Most Unbalance phase	Ubl(Ua,Ub,Uc,Uwst)	●	●	●
	Line Voltage		Uab Ubc Uac	●	●	●
	Voltage Angle		Uab Ubc Uac	●	●	●
	Current Angle		Uab Ubc Uac	●	●	●
	Displacement Power Factor	Each phase,total	DPFa,DPFb,DPFc,TOT	●	●	●
	Instantaneous Maximum RMS	Current	Ia Ib Ic,avg	●	●	●
		Voltage	Ua Ub Uc,avg	●	●	●
		Power	Pa,Pb,Pc,Qa,Qb,Qc,Sa,Sb,Sc,Psum,Qsum, ,Ssum	●	●	●
	Instantaneous Minimum RMS	Current	Ia Ib Ic,avg	●	●	●
		Voltage	Ua Ub Uc,avg	●	●	●
		Power	Pa,Pb,Pc,Qa,Qb,Qc,Sa,Sb,Sc,Psum,Qsum, ,Ssum	●	●	●