MEATROL® ELECTRICAL

Johannesburg Branch
MIMIC COMPONENTS
Cape Town Branch
Mimic Cape

FUNCTION LIST

Device Model Type

●YES ◎OPTION BLANK:NO

FUNCTION		PARAMETER	ME531	ME631-SD	W631
Type of current sensor	333mV current sensor	SCT-24/SCT-36/SCT-50	●	●	●
	5A current sensor				
	Rogowski coil	3 Rated Current（not switchable）1kA/3kA/6kA			●
		5 Rated Current(switchable）100A/600A/1kA/3kA/6kA	●		
		Rated current could be customized		●	
Installation style	Din Rail		●	●	●
Power supply	85～265VAC/100～370VDC		●	●	●
	24V		◎		
Current Unbalance	Each phase, The most unbalanced phase	Ubl(Ia,Ib,Ic,Iwst)			
Voltage Unbalance	Each phase, The most unbalanced phase	Ubl(Ua,Ub,Uc,Uwst)			
Line Voltage		Uab Ubc Uac		●	
Voltage Angle		Uab Ubc Uac			
Current Angle		Iab Ibc Iac			
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			
Harmonic	Current harmonic value	ITHDa，ITHDb,ITHDc,ITHD avg	●	●	●
	Current harmonic percentage	ITHDa(%)，ITHDb(%),ITHDc(%)	●	●	●
	Voltage harmonic value	UTHDa，UTHDb,UTHDc,UTHD avg	●	●	●
	Voltage harmonic percentage	UTHDa(%)，UTHDb(%),UTHDc(%)	●	●	●
Harmonic number display	Three			●	
Energy Measurement	Active Energy	EPa,EPb,EPc,EPsum	●	●	●
	Reactive Energy	EQa,EQb,EQc,EQsum	●	●	●
	Apparent Energy	ESa,ESb,ESc,ESsum	●	●	●
Pulse output					
Time-sharing Measurement	3 Tariff	Controlled by modbus		●	
Demand	Demand (some time ago)	Current Ia Ib Ic,avg Active/Reactive/Apparent Power: Psum,Qsum,Ssum		●	
	Maximum Demand(Maximum value of Demand)			●	
				●	
Real time parameters	Voltage	Ua Ub Uc,avg	●	●	●
	N line-to-earth voltage	Ue			
	Current	Ia Ib Ic,avg	●	●	●
	N line 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	●	●	●
Temperature measurement	One channel temperature acquisition	0-1023.75℃			●
Full parameter record	16GB memory	USB flash disk download			
	SD card	1GB		●	
Communication	Communication interface	RS485 port,Half duplex	●	●	
	Communication protocol	RJ45-Modbus-TCP			
		RS485-Modbus-RTU	●	●	
	Wireless transmission	GPRS			●
Display	TFT Display			●	

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FUNCTION		PARAMETER	ME437-SD	ME237V	ME237C	ME237R	ME237S
Type of current sensor	333mV current sensor	SCT-24/SCT-36/SCT-50	●	●			
	5A current sensor				●		
	Rogowski coil	3 Rated Current(switchable）600A/2.5kA/6kA				●	
		5 Rated Current(switchable）100A/600A/1kA/3kA/6kA	●				
	3 in 1 Rogowski coil with RJ45 output						●
Installation style	Panel		●	●	●	●	●
Power supply	85～265VAC/100～370VDC		●				
	95~265VAC/110~260VDC			●	●	●	●
Wire	Three phase, Single phase	3P4W 3P3W 1P2W (L-N); 1P2W(L-L);1P3W(L-L-N)	●				
	Three phase	3P3W,3P4W		●	●	●	●
Current Unbalance	Each phase, The most unbalanced phase	Ubl(Ia,Ib,Ic,Iwst)		●	●	●	●
Voltage Unbalance	Each phase, The most unbalanced phase	Ubl(Ua,Ub,Uc,Uwst)		●	●	●	●
Line Voltage		Uab Ubc Uac	●	●	●	●	●
Voltage Angle		Uab Ubc Uac	●				
Current Angle		Iab Ibc Iac	●				
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	●	●	●	●	●
Harmonic	Current total harmonic percentage	ITHDa(%)，ITHDb(%),ITHDc(%),ITHD avg(%)	●	●	●	●	●
	Voltage total harmonic percentage	UTHDa(%)，UTHDb(%),UTHDc(%),UTHD avg(%)	●	●	●	●	●
	Current subharmonic percentage	ITHDa(%)，ITHDb(%),ITHDc(%)	●				
	Current subharmonic value	ITHDa(A)，ITHDb(A),ITHDc(A)	●				
	Voltage subharmonic percentage	UTHDa(%)，UTHDb(%),UTHDc(%)	●				
	Voltage subharmonic value	UTHDa(V)，UTHDb(V),UTHDc(V)	●				
Harmonic number display	Fifty two						
	Five						
	Three		●				
Energy Measurement	Active Energy	EPa,EPb,EPc,EPsum	●	●	●	●	●
	Reactive Energy	EQa,EQb,EQc,EQsum	●	●	●	●	●
	Apparent Energy	ESa,ESb,ESc,ESsum	●	●	●	●	●
Digital signal	Electric energy pulse output		●	●	●	●	●
	Digital input		●	●	●	●	●
	Relay output		●	●	●	●	●
Time-sharing Measurement	3 Tariff	Controlled by modbus	●				
Demand	Demand (some time ago)	Current Ia Ib Ic,avg Active/Reactive/Apparent Power: Psum,Qsum,Ssum	●	●	●	●	●
	Maximum Demand(Maximum value of Demand)		●	●	●	●	●
			●	●	●	●	●
Real time parameters	Voltage	Ua Ub Uc,avg	●	●	●	●	●
	N line-to-earth voltage	Ue					
	Current	Ia Ib Ic,avg	●	●	●	●	●
	N line 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	●	●	●	●	●
Full parameter record	16GB memory	USB flash disk download					
	SD card	1GB	●				
Communication	Communication interface	RS485 port,Half duplex	●	●	●	●	●
	Communication protocol	RS485-Modbus-RTU	●	●	●	●	●
Display	LCD segment code display screen			●	●	●	●
	TFT Display		●				

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FUNCTION		PARAMETER	ME440	ME550	MQ21	MQ31	Intelligent oscilloscope
5 Rated Current Selectable	100A/600A/1kA/3kA/6kA	100A/600A/6kA: Default connecting 50mV/kA rogowski coil 1kA/3kA: Default connecting 85mV/kA rogowski coil					
3 Rated Current Selectable	600A/3kA/6kA	600A/6kA: Default connecting 50mV/kA rogowski coil 3kA: Default connecting 85mV/kA rogowski coil	●	●	●	●	●
Installation style	Handheld		●	●			●
	Panel						
	Din Rail				●		
	Portable					●	
Power supply	Lithium battery		●	●			●
	Electricity from major loop,90～528VAC				●	●	
	85-265V						
	24V						
	5V adaptor		●	●			
Current Unbalance	Each phase, The most unbalanced phase	Ubl(Ia,Ib,Ic,Iwst)	●	●	●	●	●
Voltage Unbalance	Each phase, The most unbalanced 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	●	●	●	●	●
Harmonic	Current total harmonic percentage	ITHDa(%)，ITHDb(%),ITHDc(%),ITHD avg(%)	●	●	●	●	●
	Voltage total harmonic percentage	UTHDa(%)，UTHDb(%),UTHDc(%),UTHD avg(%)	●	●	●	●	●
	Current subharmonic percentage	ITHDa(%)，ITHDb(%),ITHDc(%)	●	●	●	●	●
	Current subharmonic value	ITHDa(A)，ITHDb(A),ITHDc(A)	●	●	●	●	●
	Voltage subharmonic percentage	UTHDa(%)，UTHDb(%),UTHDc(%)	●	●	●	●	●
	Voltage subharmonic value	UTHDa(V)，UTHDb(V),UTHDc(V)	●	●	●	●	●
Harmonic number display	51 times in the meantime		●	●	●	●	●
	Five						
	Three						
Power quality	Voltage swell,dip	Record time, amplitude value, voltage RMS 1/2 value of each phase and voltage waveform of each phase		●	●	●	●
Waveform	Waveform display	Ua,Ub,Uc,Ia,Ib,Ic		●		●	●
	Waveform reading (UDP protocol)	Ua,Ub,Uc,Ia,Ib,Ic		●	●		
Energy Measurement	Active Energy	EPa,EPb,EPc,EPsum	●	●	●	●	●
	Reactive Energy	EQa,EQb,EQc,EQsum	●	●	●	●	●
	Apparent Energy	ESa,ESb,ESc,ESsum	●	●	●	●	●
Digital signal	Electric energy pulse output						
	Digital input				●	●	
	Relay output				●	●	
Temperature and humidity	Temperature	Three channels			●	●	
	Humidity	One channel			●	●	
Time-sharing Measurement	3 Tariff	Controlled by modbus					
Demand	Demand (some time ago)	Current Ia Ib Ic,avg Active/Reactive/Apparent Power: Psum,Qsum,Ssum	●	●	●	●	●
	Maximum Demand(Maximum value of Demand)		●	●	●	●	●
			●	●	●	●	●
Real time parameters	Voltage	Ua Ub Uc,avg	●	●	●	●	●
	N line-to-earth voltage	Ue	●	●		●	●
	Current	Ia Ib Ic,avg	●	●	●	●	●
	N line 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	●	●	●	●	●
Full parameter record	16GB memory	USB flash disk download	●	●	●	●	●
	SD card	1GB					
Communication	Communication interface	RS485 port,Half duplex			●	●	
		Ethernet port	●	●	●		●
	Communication protocol	RJ45-Modbus-TCP	●	●	●		●
		RS485-Modbus-RTU			●	●	
Display	1.3 inch Color OLED				●		
	3.5 inch TFT Display		●				
	4.0 inch TFT Display			●			
	8.0 inch TFT Display					●	●

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