





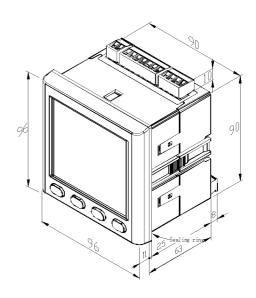
GENERAL

Multifunction power meter Teco-300 has the functions of electrical parameters measurement, TOU, power quality analysis, real-time grid waveform and phase measurement, SOE, load waveform, max/min value recording, demand statistical recording and harmonic measurement. It has RS485 communication interface supporting MODBUS-RTU protocol. It can be applied in power distribution systems and energy management systems.



FUNCTION

		Teco-300	
Measurement	U, I, P, Q, S, PF, F		
Energy measurement	Bidirectional energy	•	
	Multi-rate energy	•	
	Automatic meter reading	•	
	Fundamental energy		
	Harmonic energy	•	
	Synchronous energy	•	
	Spare energy	•	
	Four-quadrant reactive energy	•	
Demand recording	Record the demand of U, I, P, Q, S & PF with time marks, freezing the data of three months	•/	
Load line	Load line of U, I, P, Q, S & PF		
SOE recording	Recording SOE changes of digital input and relay output status, resolution time 10mS, max 248 pieces	•	
Data record	Timing record the parameters of voltage, current and energy.		
Power quality	Voltage or current imbalance		
	THD of voltage and current		
	Percentage and bar graph of 2 \sim 39th harmonics	•	
	Crest factor, K factor	•	
Energy pulse	2 optoelectronic isolation outputs	•	
Communication	nication RS485 interface, Modbus-RTU protocol		



DIMENSION



TECHNICAL SPECIFICATION

Accuracy	Vol Fre	tage, current: 0 quency:±0.02 F	.2 class; active, reactive and apparent power: 0.5 class dz; active energy: 0.5S class; reactive energy: 2 class	
	Wiring mode		Three phase four wire, three phase three wire, Single phase	
Signal input	Voltage	Rated value	400V(L-N)/690V(L-L)	
		Overload	Continuous: 1.2 times of rated value Instantaneous: 2 times of rated value	
		Power consumption	<1VA(per phase)	
		Impedance	> 1MΩ	
	Current	Rated value	1A/5A	
		Overload	Continuous: 1.2 times of rated value Instantaneous: 10 times of rated value during 3 seconds	
		Power consumption	< 0.4VA (per phase)	
		Impedance	< 20MΩ	
	Frequency		50Hz/60Hz	
Power supply	Operating range		AC(100-415)V / DC(100-350)V	
	Power consumption		< 10VA	
Electric energy pulse output			Optoelectronic isolation output, pulse width 80ms±20% (> 5Hz, the duty cycle is 50%)	
Relay output			Capacity:AC250V5A or DC30V5A Isolation voltage 2500VAC	
Analog output			Accuracy: 0.5% Load resistance R≤350Ω	
Digital input			Dry contact node Isolation voltage: 2500VAC	
Data recording			Interval time 1-60min, 4 channels, 32000 pieces per channe	
Communication	RS485 interface		Modbus-RTU protocol, Baud rate: 1200∼9600bps	
Protection			Front case IP66, rear case IP20	
Α	Operating temperature		(-25∼+70)℃	
Environment conditions	Storage temperature		(-40∼+85) ℃	
	Relative humidity		(5∼95)% (no condensation at 50°C)	
	Anti-pollution grade		2	
	Measurement type		CAT III	
	Isolation		Signal, power supply and output terminals to case resistance>100M Ω	
	isolation		Isolation voltage between signal, power supply and output > AC2kV	
	EMC		> III grade	