



Three-Phase Calibration Terminal DataSheet

Tespro China's Three-Phase Calibration Terminal TA-272-3P is for three phase electronic energy meter error calibration. TA-272-3P can measure energy meter errors, display of voltage, current, power, power factor, frequency etc. What is more, TA-272-3P can measure the following parameters:

- * Harmonics of 2nd to 51st
- * Show the voltage, and current waveform of three phase A.B.C
- * Measurement of transformation ratio for CT
- * Communication examination for energy meters
- * Register measurement
- * Detection of wiring failures and calculation of electricity compensation
- * USB/BlueTooth/WIFI and communication ports available
- * Multi function table data reading, adaptive baud rate for communication, protocol customizable

Technical Specifications

Category	Items	Features
Voltage Parameters	Voltage - Error range	10V - 660V
	Voltage - Starting measured value	0.5V
	Voltage - Rating value	480V
	Voltage - Error grade	±0.05%
Current Parameters	Current - Terminal rated Ie	5A
	Current - Terminal Range	0.025A – 12A
	Current - Clamp rated Ie	5A\20A\100A\500A\1000A\5000A
	Current - Clamp Range	0.5% Ie – 1.2 Ie
	Current - Starting current	0.02% Ie
Frequency & Phase	Input frequency range	45-65Hz
	Frequency measuring error	±0.01Hz
	Phase measuring range	-180°- 180°
	Max phase error	±0.1°
Harmonic Measurement	(Harmonic wave percentage) (harmonic wave electrical data) (harmonic wave electric energy measuring times)	2-51 times
Pulse Parameters	Pulse constant (Note: Ie—rated current) - low frequency output -5A	3600P、 36000P、 360000P/kWh(kvarh,kVAh)
	Pulse constant (Note: Ie—rated current) - low frequency output - Other	3600P、 36000P、 360000P *(5/Ie)P/kWh (kvarh, kVAh)
	Pulse constant (Note: Ie—rated current) - Internal high frequency -5A	3.6 e+6P、 3.6 e+7P、 3.6 e+8P /kWh (kVarh)
	Pulse constant (Note: Ie—rated current) - Internal high frequency- Other	3.6 e+7P、 3.6 e+8P、 3.6 e+9P(*5/Ib) /kWh (kVarh)
	The highest pulse input frequency	50kHz
Measurement Accuracy	5A terminal - full wave/fundamental wave (kWh,P,U,I)	±0.05%
	5A terminal - full wave/fundamental wave (Kvarh,Q,VA,Vah)	±0.2%

	5A terminal - harmonic wave (U.I.P.Q.S)	$\pm 0.2\% H$ ($H=1+0.01k$ $K=2-51$)
	5A clamp meter - full wave/fundamental wave (kWh,P,U,I)	$\pm 0.2\%$
	5A clamp meter - full wave/fundamental wave (Kvarh,Q,VA,Vah)	$\pm 0.2\%$
	5A clamp meter - harmonic wave	$\pm 0.5\% H$ ($H=1+0.01k$ $K=2-51$)
	5A clamp meter - Self- checking current circulating output current	0.05A,0.1A,0.25A,0.5A,1A,2.5A,5A
	5A clamp meter - self-checking error (Linear and angular difference)	$\pm 0.1\%$
	Large current clamp - full wave/fundamental wave (kWh,P,U,I)	$\pm 0.5\%$
	Large current clamp - full wave /fundamental wave (Kvarh,Q,VA,Vah)	$\pm 0.5\%$
	Large current clamp - harmonic wave (U.I.P.Q)	$\pm 1.0\% H$ ($H=1+0.01k$ $K=2-51$)
Other Functions	Other - Ratio measurement	$\pm 0.5\%$