



TP-12

Optical Probe for Power Energy Sensing Data Sheet



CE Certification

RoHS

RoHS Certification



Protection IP54

TP-12 is a mini optical probe scanning probe suitable for pulse sensing, on-line power energy monitoring or solar energy application. TP-12 mini scanning probe is originally designed and manufactured by Tespro China.

TP-12 optical scanning probe can sense both light and IR(Infrared) light pulses emitted by LED, and then convert them to electric pulses. TP-12 is designed with two power supply modes, one is powered by +5V which is supplied by outer power source, and LED indicator on top of probe is enabled in this mode. The other is powered by +3.3V which is suitable for battery power system on very low consumption. LED indicator on top of probe is disabled in this mode.

TP-12 scanning probe is originally designed by Tespro China and supports customized circuits and casings for customers, as well as OEM/ODM support.

Technical Specifications

Item	Features
Power supply	DC 5VDC / DC3.3VDC for option 5V powered, with LED indicator 3.3V powered, with LED indicator disabled
Output level	TTL, and 1M Ω load to V+ is recommended
Power consumption	less than 1 μ A when standby Instant pulse current less than 140 μ A
Cable length	1M in normal, 2M/3M for option
Connector	bare wires without connector in normal Customized connector is available
Mechanical	Impact ABS + PC housing
Environment	Application temperature: -40°C~70°C in normal
Diameter & Height	22 mm Diameter / 17 mm Height
Weight	16 gr
Probe Fixture	3M double-sided tapes (default) Magnetic/stick-on strips for option
Protection Class	IP 54



Tespro Electronics Co., Ltd.

Web : <https://www.tespro.com>

Email: info@tespro.com / sales@tespro.com

Mobile/whatsapp : China: +86-13928019921, +86 13825632387, HK: +852-64809837, US: +1 8084918078

We have offices in multiple countries: China, US, UK, AUS, HK. If you encounter an agent, please contact us first to confirm.