



Product Specification:

UltraTEV[®] Plus² Wireless Phase Reference (UTP2-WPR)



UltraTEV

Make Partial Discharge
discovery simple

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CHANGE HISTORY

DATE	VERSION	AUTHOR	CHANGES
25/04/23	1		

UltraTEV® Plus² Wireless Phase Reference (UTP2-WPR)

Physical

Size	115*118*50mm
Weight	5200g
Enclosure	Injection moulded plastic case
Connectors	1x GCS1 Current Sensor (for a cable of 1.5m in length) 1x Power Barrel connector
Mounting Mechanisms	Freestanding Magnets in feet to attach to any magnetic surface. Velcro Strap to wrap around cables (up to 100mm diameter)

Environmental

Operating Temperature	-20 – +50 degrees °C
Humidity	0 – 95% non-condensing
IP Rating	42 (BS EN 60529)
Impact Rating	1IK08 (BS EN 62262)

Indicators and Controls

Indicators	4x LEDs to indicate current Phase Reference Source 1x bicolour LED for Wi-Fi/WPS status 1x LED to indicate charging status 3x LEDs for the Battery Level
Controls	3x Push Buttons

Power Supplies

Internal batteries	Lithium Polymer 3.7V, 2000mAh
Operating Time	Approx. 16 hours
Battery Conservation	Automatic shutdown after 15 minutes of not being connected.
Power input	9Vac 50Hz/60Hz, 5W
Charging Time	Approx. 3h

Battery Charger/AC power port	
Rated voltage	230 VAC
Frequency	50Hz
Max output current	1.1 A
Output Voltage	9VAC
Power Rated	15W
Environment	-10 To 40 degrees C, 0-90%RH
Cable Length	Input: 2.0m Output: 1.8m

Connectivity	
	Wi-Fi (IEEE 802.11) – Connecting to the UTP2
Wireless	Frequency: 2.4 GHz Maximum Power: +19.97 dBm Model Number: ESP32-C3-WROOM-02 Antenna: PCB Antenna, 3.42dBi Certificate Number: E1177-210909 Certificate Issued by: Notified Body 1177, TIMCO Engineering, Inc.

Phase Reference	
Sources	Mains Input Power, Lighting (Photo sensor), Electric field (High-Z sensor), Rogowski Coil
Frequency Range	50 Hz \pm 1%, 60 Hz \pm 1%
Accuracy	\pm 5deg

Compliance	
Electromagnetic compatibility (EMC)	BS EN IEC 61326-1:2021 (Electrical equipment for measurement, control, and lab use – EMC requirements) BS EN 61000-3-2: 2019 Electromagnetic compatibility (EMC) Part 3-2: Limits – Limits for harmonic current emission BS EN 61000-3-3: 2013 + A1: 2019 (Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply Systems)
Radio	ETSI EN 301 489-17 V3.2.4 (EMC standard for radio equipment and services, for Broadband Data Transmission Systems) ETSI EN 301 489-1 V2.2.3 (EMC standard for radio equipment and services; Part 1: Common technical requirements)
Safety	BS EN 61010-1:2010+A1:2019 (Safety requirements for electrical equipment for measurement, control, and laboratory use)

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Global Footprint

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Founded in 1966 we have over 50 years' experience in the industry and 6 regional offices around the world to support our global customer base.

We help clients to safeguard their networks. Advising them on strategy and implementation of a range of technology solutions to manage power assets, delivering maximum life and minimising cost



Safer, Stronger, Smarter Networks

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