

# HUWOR Co-Drafted T/EPTC 002-2022

## Technical Specification of 10 kV Intelligent Distribution Transformer (group standard, Zhongguancun EPTC)

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### About the standard

T/EPTC 002-2022, Technical specification of 10 kV intelligent distribution transformer, is a group standard proposed and issued by the Zhongguancun Smart Electric Power Industry Technology Alliance (Zhongguancun EPTC) and under the jurisdiction of its Standardization Working Committee. It was published on 2022-12-27 and implemented on 2022-12-31.

The standard covers general requirements, composition (transformer body, sensors, control execution components and intelligent monitoring unit), functions, tests, transport and acceptance of smart distribution transformers. It standardises the interface between the transformer and intelligent terminals and systems.

Before this standard, GB/Z 34935-2017 covered oil-immersed intelligent power transformers at 66 kV to 750 kV, but no standard addressed the widely deployed 10 kV intelligent distribution transformer — a gap T/EPTC 002-2022 fills.

### Drafting participation

Fifteen organisations took part in drafting the standard, including Shandong Electric Engineering Group Intelligent Electric Co., Ltd., State Grid Yiwu Power Supply Company, Shandong Kehui Power Automation Co., Ltd., XJ Transformer Co., Ltd., Yunnan Power Grid Electric Power Research Institute, State Grid Beijing Electric Power Research Institute, State Grid Shandong Electric Power Research Institute and Zhuhai Huawang Technology Co., Ltd. Twenty-two drafting personnel are credited.

### Why it matters to customers

T/EPTC 002-2022 defines the sensor and intelligent monitoring unit requirements of smart distribution transformers — the exact application area of HUWOR's sensing and online monitoring portfolio.

Sensor accuracy and interface requirements in the standard align with HUWOR's distribution-side sensing products.

The standard's Modbus, IEC 101 and MQTT data models correspond to the protocols supported by HUWOR IoT gateways and monitoring terminals.

Drafting participation gives HUWOR first-hand knowledge of the standard's intent, supporting compliant product design and integration for distribution transformer OEMs and utilities.

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### About Huawang Technology (HUWOR)

Zhuhai Huawang Technology Co., Ltd. (HUWOR) is a national high-tech enterprise established in 2010, specialising in condition monitoring and assessment of power equipment. The company supplies smart sensors, testing instruments and online monitoring systems for partial discharge detection, with R&D; centres in Zhuhai and Xi'an, over 50 patents, 63 software copyrights and ISO 9001 certified manufacturing. HUWOR supports OEM and ODM projects for distributors and system integrators worldwide.

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