

HUWOR Co-Drafted the Power Industry Standard for High-Voltage Ceramic Capacitance Sensors up to 35 kV

Power industry standard: Technical specifications for high voltage ceramic capacitance sensor up to 35 kV (draft, proposed by the China Electricity Council)

About the standard

A new power industry standard titled Technical specifications for high voltage ceramic capacitance sensor up to 35 kV is in drafting. It is proposed by the China Electricity Council and under the jurisdiction of the Standardization Technical Committee for Power Capacitors of the Power Industry.

The standard specifies terms and definitions, service conditions, basic classification, electrical performance requirements, mechanical performance requirements, other performance requirements, tests, marking, packaging, transport and storage for high-voltage ceramic capacitance sensors.

It applies to sensors used in online monitoring, voltage measurement and voltage-dividing energy extraction at rated voltages up to 35 kV and 50 Hz. Ceramic capacitance sensors are widely used in 3 kV to 35 kV power systems for monitoring whether equipment is energised, measuring partial discharge, measuring system voltage and extracting energy.

Drafting participation

Sixteen organisations took part in drafting the standard, including Yunnan Power Grid Co., Ltd. Electric Power Research Institute, Xi'an Jiaotong University, China Electric Power Research Institute, CSG Electric Power Research Institute, Chongqing University, North China Electric Power Research Institute Co., Ltd., Xi'an Fara Electric Co., Ltd. and Zhuhai Huawang Technology Co., Ltd. Nineteen drafting personnel are credited, and HUWOR's engineers are among them.

The draft document (Chinese, dated 2026-08-26) is available as a public reference copy. The final standard number will be assigned by the National Energy Administration upon approval.

Why it matters to customers

The standard covers the ceramic capacitance sensors that HUWOR supplies for live-line indication, partial discharge measurement, voltage measurement and energy extraction in switchgear and substations.

Electrical performance requirements of HUWOR products are aligned with the draft specification.

Test regimes (partial discharge, dielectric and mechanical) follow the industry committee's evaluation criteria.

Drafting participation means HUWOR's ceramic capacitance sensor products are developed with first-hand knowledge of the performance, mechanical and test requirements under evaluation by the industry committee.

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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