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GB/T 47342-2026

Internet of things - Technical requirements for intelligent electricity monitoring systems for parks

物联网 园区智能用电监控系统技术要求

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Information Technology Standardization Technical Committee (SAC/TC28). This document was drafted by: Zhejiang Dahua Technology Co., Ltd., China Electronics Technology Standardization Institute, and CESI (Shenzhen) Electronic Information. Product Standardization Engineering Center Co., Ltd., Jiangsu Saixi Technology Development Co., Ltd., Tianjin Kunpeng Information Technology Co., Ltd., China Southern Power Grid State Grid Corporation of China Ultra-High Voltage

Transmission Company, University of Electronic Science and Technology of China, State Grid Fujian Electric Power Co., Ltd., Inspur Cloud Industrial Internet Co., Ltd. The company, Wuxi Internet of Things Industry Research Institute, China Tower Corporation Limited, Chengdu Qinchuan Internet of Things Technology Co., Ltd., and Hangzhou Hikvision. Vision Digital Technology Co., Ltd., Anhui Telecom Planning & Design Co., Ltd., China Mobile IoT Co., Ltd., China Mobile (Hangzhou) Information Technology Co., Ltd. Xi'an Aerospace Automation Co., Ltd., China Construction Technology Group Co., Ltd., and China National Petroleum Corporation (CNPC) Exploration and Research Institute. Northwest Branch of the Exploration and Development Research Institute, Shanghai Yixun Information Technology Co., Ltd., Zhejiang Lierda Internet of Things Technology Co., Ltd., and China Electronics Science Popularization Tianke Technology Co., Ltd., Suzhou Gebi Intelligent Technology Co., Ltd., Institute of Automation, Chinese Academy of Sciences, Jiangsu Ya'ao Technology Co., Ltd. Beijing Telecom Planning and Design Institute Co., Ltd., Wenzhou Vocational Secondary School, Wuhan Sanxiang Electric Co., Ltd., Shenzhen Shenglong Information Technology Co., Ltd. Technology Co., Ltd., Haier Technology Group Co., Ltd., Henan Xuji Instrument Co., Ltd., Beijing Dongtu Technology Co., Ltd., Shanghai Jiaotong University Chongqing Research Institute, Jiangsu Luokai Electromechanical Co., Ltd., Qingdao Tuowei Technology Co., Ltd., and Shanghai Zhihui Liangxin Power Distribution Co., Ltd. The companies include Shenzhen Panyueliang Innovation Technology Co., Ltd., Newland Digital Technology Co., Ltd., and Wuxi Internet of Things Innovation Center Co., Ltd. The main drafters of this document are. Fang Guiming, Wang Xiaochun, Yang Hong, Lin Miansong, Li Guangyi, Su Jingru, Li Yinglong, Zhuo Lan, Wen Xing, and Guo Xiong. Deng Zhiji, Li Xiaoyu, Chen Jinshan, Qi Guangpeng, Xu Wei, Chen Shuyi, Wang Xu, Li Linjing, Shao Hanshu, Zhao Xianlin, Liu Qiong, Luo Jian, Wang Nan, Su Dawei Wu Ruina, Zeng Tao, Yao Gang, Liu Ying, Chen Jiajun, Zhang Chi, Ye Yang, Cao Yijun, He Saike, Tang Wei, Li Jiajing, Wang Hengxin, Zhang Xueqin, Zhang Duliang Li Peng, Hu Feng, Cheng Yuan, Dai Liming, Sun Donglai, Kang Bolun, Wei Dajun, Xie Zongqiang, Sun Xu, Dong Jielian, Liu Shu, Cai Chunshui. IoT-enabled smart power monitoring in industrial parks System technical requirements

1 Scope

GB/T 47342-2026 is the Chinese national standard covering metering and watching the electricity of an industrial or business park - the sensors and meters, the communication, the platform and the analysis that finds waste, imbalance and the early signs of a faulty circuit. First edition, in force since 1 October 2026. It was issued on 31 March 2026 and takes effect on 1 October 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document outlines the system architecture of an IoT-based intelligent power monitoring system for industrial parks, specifying the sensing and control components, application platform, and user... Interactive, communication network and system security technology requirements. This document applies to the design and development of IoT-based smart electricity monitoring systems for industrial parks.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2900.71-2008 Electrical Engineering Terminology - Electrical Installations

GB/T 16915.2 Switches for fixed electrical installations for household and similar purposes - Part 2-

3 Terms and Definitions

The terms and definitions defined in GB/T 2900.71-2008 and GB/T 33745, as well as the following terms and definitions, apply to this document.

3.1 park Centralized and unified planning of designated areas, with specific industries, sectors, or enterprises specifically established within these areas for unified management, and the aggregation of various production... By scientifically integrating production factors within the region, it is easier to improve the intensity of industrial agglomeration, highlight distinctive features, optimize functional layout, and make it adaptable to local conditions. A collaborative zone for market competition and industrial upgrading. This includes zones specializing in industry, agriculture, technology, logistics, and creative industries. [Source: GB/T 31960.1-2015, 3.8]

3.2 With the aim of ensuring safe and energy-efficient electricity use in the park (3.1), this involves monitoring the power circuits (3.3), electrical equipment (3.4), and power consumption areas within the park. The system senses and collects electrical parameters of the power circuit (3.3), senses and controls the status of the power equipment (3.4), and monitors its status, working model, and operation. The system provides power consumption monitoring, power consumption control, alarm and early warning, visualization, and statistics by collecting parameters, as well as environmental parameters of the power consumption site and personnel information.