Application of Electronic Information Technology in Electrical Automation

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Abstract. With the further development of the industrial revolution, various regions in the world have entered the era of industrial economy one after another. And modern science and technology go deep into all walks of life at the same time in the industrial field has made great changes. This makes the domestic electrical automation technology tend to change to the level of intelligence, automation and information. In order to better strengthen the integration of electronic technology in the industry, an effective application strategy is put forward for the specific application of electronic information technology in electrical automation.

1. Introduction
The development of science and technology has brought new direction to the change of industry, especially in the development of industrial industry. The rapid development of electronic information technology can better meet the needs of people. At the same time, electronic automation can reduce labor cost in industry and improve industrial production efficiency. Mechanical replacement of labor is also an inevitable trend of industrial development, in which the optimization and upgrading of electronic information technology can better match the automation industry. And the integration of automation management has injected a new force into the new development of industry. However, the traditional concept of industrial development still exists in the industry. Industrial electrical automation has highlighted some problems in the process of operation, which need to be addressed. The inherent concept further improves and promotes the scale progress of the electrical automation enterprise, raises the standard of its enterprise development, and strengthens the productive capacity development of the enterprise, finally realizes the ultimate goal of promoting the national economic development.

2. Concept of electronic information technology
Electronic information technology is mainly displayed by computer technology in the process of concrete application. In order to ensure the accuracy and stability of data transmission, a large number
of input data are transmitted by computer coding and combined with optical cable and communication satellite equipment. To meet the needs of information transmission and data processing in the process of industrial development. In the current industrial electrical automation construction, it is emphasized that the integration of electronic information technology is mainly reflected by digital technology. The core of electronic information technology is the information process, which can store the data operation in the equipment through rich forms. It involves not only image language and even text, but also electronic information technology can ensure the accuracy of data transmission, reduce the influence in the process of information transmission, and then realize friendly communication and communication between the two sides [1]. Digital technology has directly improved the status quo of low information sharing among media, expanded the amount of information transmitted, and provided more possibilities for the utilization and analysis of various information.

3. Analysis of the Characteristics of Electronic Information Technology in Electrical Automation

The advantage of electronic information technology needs to make full use of computer programming, on the basis of which data arrangement and coding are combined with communication system equipment. At the same time, this technology can also bear the output signal, so as to discuss the characteristics of the automation application of electronic information technology in depth, help its electronic information technology better play its advantages in the electrical automation industry [2].

3.1. Good reliability of electronic information technology itself
Science and technology is the first productive force in social development. With the all-round development of electronic information technology, its advantages of digital technology become more and more prominent. The era is gradually moving towards big data, emphasizing the importance of data analysis and intelligent interpretation of data to better help enterprises in the market position [3]. To this end, electronic information technology can adapt to the development of intelligent electronic equipment, and play its own practical role, strengthen the accuracy of its electronic equipment operation and improve the security of information system construction. To a certain extent, it verifies that its technology can ensure the reliability of electrical automation application. Secondly, the reliability of electronic information technology also includes that it can improve the overall operation flexibility and convenience, and can be better used in the emerging optical fiber network and digital transformer. Not only that, this technology is also very advanced in the digitalization and networking of instruments and instruments, which can ensure the accuracy of its positioning and emphasize the balance of its equipment [4]. It can be seen that the integration of electrical automation electronic information technology in industry is very promising.

3.2. Electronic information technology is cost-effective in electrical automation
The fierce market competition and the further emphasis on the progress of information technology stimulate the scale expansion of enterprises themselves. Therefore, while ensuring the stability of individual expansion and development, enterprises also need to emphasize the adaptation of development direction and market demand. In order to strengthen their own strength in the market, they need to update the equipment content continuously. Ensure output ratio and improve production efficiency. The greatest advantage of electronic information technology can ensure the efficient operation of electrical equipment and the cooperation of documents between different systems. Secondly, in the process of application, further attention to the maintenance, monitoring and maintenance of equipment can enable electronic information technology to effectively achieve the role of data collection, collation, analysis. At the same time, the construction of data system is further combined with information technology, so as to promote the intelligent progress of the whole electrical automation level and provide reliable and practical technical guarantee for the safe and stable operation of the system [5]. Not only that, the advantages of electrical information technology can also better standardize the transformation of engineering operation, improve its operational efficiency and promote its efficient development. The scientific control of information technology and
3. Electronic equipment also reduces the cost of its overall production, and then ensures the improvement of the cost-performance ratio of its enterprise development.

3.3. Electronic information technology has strong maneuverability
The application of electronic information technology depends on computer system. Compared with the remote system operation, the intelligent algorithm of computer system can greatly reduce the pressure of manpower work, standardize its working quality and reduce the probability of problems in the actual process. It is only necessary to arrange the corresponding staff to set specific instructions and programs on the computer in combination with the system, and its electrical equipment can run the instructions freely through the control of information technology. The reduction of labor cost and technical cost greatly promotes the economic benefit of enterprises. Not only that, this kind of computer operation technology reduces the difficulty in the process of human operation, thus improving the maneuverability of the system. Accurate and concise program setting reduces the probability of human error and ensures the qualified rate of the whole construction product [6]. Electronic information technology (EIT) has its own logical judgment capability, which gives practical advantages in ensuring the operation of equipment and emphasizing safety in production. At the same time, it also contributes to the process of accurate information, which is the key to enhance the efficiency of operations.

4. Application of Electronic Information Technology in Electrical Automation
With the further upgrading of electrical automation industry, the application of electronic information technology shows great significance. In order to have a deeper development in the field of industry, any new technology needs to be integrated according to the characteristics of its industry, combined with specific technical indicators to standardize the individual requirements for the use of technology. The same is true of the application of electronic information technology in electrical automation, so it is necessary to optimize and innovate the technology while ensuring the application of the original technology.

4.1. Integration of information technology with intelligent terminal technology
In the process of industrial electrical automation development, electronic information technology can better promote its automation development. But its technology also needs to be combined with the development direction of the times, with different advanced technology to show the advantages of its own technology, to ensure that its automation system construction to meet the needs of enterprise development. With the rapid development of terminal technology, its electronic equipment can be combined with intelligent terminal technology to improve the connection process between electrical enterprise manufacturing and electrical system. Through the intelligent terminal technology software and electronic information technology hardware reasonable adaptability to improve the overall product in the market competitive strength [7].

4.2. Enhanced system performance to improve management
In the process of electrical automation technology transformation, the comprehensive quality of its operating system directly determines the quality of industrial production. Regular optimization and upgrading of operating system and electronic information technology is an important strategy to ensure the stability of the whole system. With the gradual transformation of industrial industry to automation and intelligence, the fixed defects of electronic information technology production system become more and more prominent [8]. Therefore, as an enterprise, it is necessary to set up a professional technical group for the operation of its electronic system, to improve and upgrade the system regularly, and to ensure that its system operation procedures meet the needs of enterprise development. At the same time, we should strengthen the scientific research on its system perfection and innovation, ensure the stability of the equipment cooperation through positive technology.
improvement, innovation and regular system performance optimization, and strengthen the quality of product production and improve its effective product productivity.

5. Innovation of Electronic Information Technology in Industrial Electrical Automation

With the transformation of industrial electrical automation production and the integration of electronic information technology, there are many problems. In order to minimize the impact of information technology on the overall system operation, strengthen the advantages of electronic information technology, and ensure that electronic information technology can adapt to the changeable market. In the process of innovation and optimization, it is necessary to put forward innovative strategies for the development direction of enterprises and the changing needs of the market.

5.1. Innovative optimization of operating systems

Combined with the optimization of innovative system, we should focus on perfecting the fault treatment scheme of the system, and strengthen the comprehensive understanding of the possible problems in the operation process of the operating system through the data supervision of the operating system and the sum of the problems. Not only that, but also need to constantly strengthen the operation system requirements and the actual needs of the enterprise to varying degrees to ensure that the actual operation on the basis of the gradual improvement and optimization of the system structure [9].

5.2. Use of fibre optics to achieve full system connectivity

In order to strengthen the speed of data collection and the comprehensive quality of data collection, data collection can be analyzed and controlled by spacer layer and intelligent terminal. Moreover, optical fiber connection in electrical automation can enhance the reliability of information transmission, and optical fiber connection improves the accuracy of information transmission and the efficiency of data transmission. To ensure that its electrical automation can operate normally on the program interface in the process of optical fiber application, the standard specification of the program interface ensures that it can be automatically connected to the PC platform and can communicate and communicate data smoothly and MES, ERP the system. Among them, it is necessary to define the standard of communication as TCP/IP this standardized program interface to meet the development needs of enterprises, and to strengthen the data exchange of hardware and software products to improve the quality of communication and promote the intelligent process of the whole system. A broader data space is established for further upgrading and optimization of the system.

5.3. Technological innovation combined with intelligent terminals

With the improvement of optical fiber technology in information data transmission, intelligent terminal can play its own comprehensive ability of data acquisition and analysis in automation system. The intelligent terminal can ensure its power and remote signal testing and receiving functions by cooperating with the data of each equipment, so as to maintain the comprehensive security of the equipment. In addition, the intelligent terminal can also realize the measures of tripping dual protection. This technology can effectively improve the intelligence of electronic information technology in industrial electrical automation, and ensure the reliability and safety of system personnel. Secondly, the intelligent terminal system also improves the control efficiency of each equipment, and ensures that its integrated equipment can be adjusted as a university to reduce the limitation of uncontrollable factors on the production of intelligent products.

5.4. Virtual terminal is a practical application technique

The application of virtual terminal in electronic information technology and the development of electrical automation can better improve the poor operation of secondary circuits in its system. This can make the operation of the whole system more convenient, and make the operation and setting control of the system more simple and easy to operate, thus reducing the difficulty of the work and
improving the comprehensive efficiency of the work. The purpose of this technology is to optimize the secondary loop technology, with emphasis on signal control and management, temperature debugging and environmental testing of specific equipment. On the basis of this technology, the further lengthening of the program can better control the operation of the equipment and ensure the execution of its personnel and equipment. As we all know, the level of execution is closely related to the comprehensive efficiency of work, so it is necessary to ensure the high execution ability of electronic information technology in the process of using it [10]. This is reflected in the control of the core application of electronic technology, which aims to enhance the overall strength of personnel and the understanding of the operating system and the operation of various equipment in order to ensure that staff can continuously debug and improve the system. This can keep the integrated automation system in the best condition at any time. Not only that, the improvement of the system also needs to emphasize the support of the actual operation system. To this end, enterprises are required to arrange professional personnel to manage the update and maintenance of their operating software, and be responsible for strengthening the performance of their operating systems in practical aspects.

6. Conclusions
To sum up, the continuous development and renewal of electronic information technology combined with computer science and technology and digitization can better promote the production efficiency of enterprises and reduce the consumption of resources in the development of enterprises. Not only that, the integration of different technologies has a high dependence on the system construction in enterprises. In order to meet the advantages of advanced systems, enterprises themselves need to pay attention to the efficiency of real automation production, but also need to carry out reasonable content coordination in many aspects. Enterprises need to strengthen the control over the operating system, and optimize and improve it according to the problems in the process of technology integration and the future development direction of enterprises and the industry. Enterprises also need to enhance the comprehensive professional skills of relevant personnel, from which to improve the overall industrial level and promote the realization of enterprise development goals.

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