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水处理与环境 Water treatment & Environment

天津德明福自动化技术有限公司
Tianjin DAMF Automation Technology Co., Ltd



公司简介
Company profile

天津德明福自动化技术有限公司——秉承“全心全意为工业自动化整体解决方案”的宗旨，立足于国际先进水平，结合国内实际情况，为客户提供高性价比、高品质的工业自动化整体解决方案。

自成立以来，在泵站、污水处理、供水系统、污水处理以及工业废水处理专业水处理方面积累了丰富的经验，并为用户提供了大量的水处理工程。通过不断的实践，公司积累了丰富的水处理行业电气自动化系统设计和施工经验，熟悉各种水处理工艺，培养了一支专业性强、技术精湛的专业化工程队伍，成为水处理行业用户提供整体设计、采购和实施于一体的“交钥匙”工程。

公司通过 GB/T19001-2008 和 ISO9001:2008 标准质量管理体系认证，建立了完善的质量保证体系，为客户提供优质的自动化系统。

公司本着“信守承诺，创造价值”的企业精神，以诚信、互利为原则，坚持质量第一、信誉为重，客户第一的方针，愿与各界同仁合作，携手共进，共创辉煌。

Tianjin DAMF Automation Technology Co., Ltd. is a high-tech enterprise dedicated to total industrial automation solution located in the beautiful and vigorous seaside city - Tianjin, and provides total automation solution of high value and high return to customers, thanks to international innovative development concept and unique automation technology and products.

Since its establishment, the company has provided many electric automation systems used for water treatment, such as in pump stations, sewage treatment, water purifying and recycling of industrial water. The systems are well received by the user. Implementation of the systems offers the company valuable experiences in design and construction of electric automation systems for water treatment, serving it with a better understanding of the techniques used for water treatment and a professional and highly skilled team of engineering. It now offers years in this matter with "turn-key" automation solutions, including design, procurement, and implementation.

It operates with a well-developed quality assurance system, and has passed the certification of GB/T19001-2008 idt ISO9001:2008 standards of quality management. It also provides reliable automation systems of great quality.

Inspired by the spirit of "keep good morality for industrial benefits", the company always put quality, reputation and customers as its top priority. Being honest and for the mutual benefit is its long-term criterion of operation. It devoted to work with partners and customers from all sectors to create a splendid future.





Pumps, Motors play an important role in water supply & drainage, and allocation of water resources in a city. For example, the reverse pump station is a major facility for urban construction and management, while water pumping stations and booster pumping stations are crucial to the water supply system.

東國自設字源所對各書號：

- 正史、野史、稗史

系统达到“无人操作、少人操作”的控制要求。

- ## （2）信用证

系统采用高性能、高可靠性、成熟的工业级产品制造。

- ### （3）功能完善

系统可设备监控、视频监控、在边缘设备集成在一个平台

- (4) 培养基选择。用琼脂斜面

采用最先进的印刷和网络技术，具备多种通讯接口，可以
用方便的方式对系统中设备进行/通讯系统中



單源非穩定系統主要仿群

- (1) 事故停机的故障控制
- (2) 故障保护功能
- (3) 运行实时监控
- (4) 各种参数(温度、电压、频率等)显示记录
- (5) 参数跟踪报警、故障状态显示记录
- (6) 利用网络通信的方式实现显示系统的状态
- (7) 数据流有上传功能
- (8) 数据接收中心、电话报警系统、报警管理、门报警系统

Major functions

1. Safe on/off control of the pump;
2. Leaklock protection;
3. Real time monitoring of operations;
4. Display and recording of parameters (liquid level, power and flow, etc.);
5. Warning about over limit parameters, and display and recording of alarm status;
6. Use simulation images to show the status of the station;
7. Remote data uploading;
8. Safety control, including video monitoring, parameter alarm, and remote control, etc.

煤田的主要组成部分

- | | |
|-----------|------------|
| 1. 供配电系统 | 2. 建筑设备自动化 |
| 3. 火灾报警系统 | 4. 智能卡系统 |

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1. LV electric cabinet
2. Integrated pump station automation system
3. Video monitoring system
4. Data collection system



污水处理自动化系统
Automation system of sewage treatment

污水处理包括各种形式的市政污水处理厂、污水垃圾站、造纸厂工业污水、废水处理系统。广泛存在于工农业生产中。污水处理的生产过程的特点：各种物料和管道、构筑物、设备、过程中不断进行着物理的变化、化学变化和生物的变化，各种工业参数时刻在变化；为了保证污水处理的运行效果高，需要采用自动化装置运行和管理。部分污水厂采用物化水处理技术。

Sludge treatment involves unit at sewage treatment stations and plants, as well as those inside factories. It is a necessary step for almost all the industrial and agricultural production. During the treatment, various materials will undergo physical changes, chemical or even biochemical reactions inside pipes, structures, equipment, and containers. These industrial parameters keep changing all the time. To assure efficient treatment, automatic devices are needed for fast and adjustment. Some sewage plants also deal with water reclamation.



大型型污水处理“由点化系统集权”集中管理、分散控制、数据共享”的原则。一是采用无光环境的方式，通过以太网将集中管理在各个区域的控制系统集中起来进行控制、控制同一数据采用大型型(系统设备如下特点)。

1. 有良好的适应性;
2. 采用分布式结构, 具有良好的通信能力;
3. 有良好的人机界面和较好的扩展能力;
4. 有良好的开放性;
5. 采用先进控制设备如水质传感器进行在线监测。

Automation systems used in large or medium-sized sewage treatment plants generally follow the principle of "centralized management, decentralized control and sharing of data". Often, the flow-optimal ring network is applied, through which control systems located in different areas are integrated for the purpose of control. A large or medium-sized PLC is used as the controller. It possesses the following advantages:

1. Good adaptability
2. A distributed structure that allows good communications
3. Friendly interfaces, and strong backups
4. Open
5. Online measurement of gas properties such as quality via automatic flow adjustment



这些博物馆的馆长及其助理说：

1. 根据污水处理工艺对工艺所需的水、电、风、药剂设备、药剂的供应条件进行可行性研究;
2. 采用先进控制策略, 对污水处理工艺中关键控制参数进行实时监控, 如生化反应、污泥浓度等核心工艺的自动控制;
3. 采用各种工艺参数、中间变量、趋势;
4. 报警功能: 通过内外各种形式及时参数超限、设备故障报警;
5. 历史数据功能: A、事件记录; B、历史趋势记录及报表功能;
6. 调度功能; 7. 数据备份及恢复功能; 8. 安全保密功能。

西康使用厂全厂的设备清单

1. 全厂SCADA
2. 生化池、污泥池等核心工艺的自动控制
3. 仪表或水质检测
4. 视频监控

5. Offer program controls over valves, pumps, etc.

3. Advanced levels of controls are applied to deal with complicated systems, such as a fully automatic on the top-Chained tool that the tool post, etc.
4. Correct process parameters, for display or storage.
5. Audible and visual alarm: eye-and parameters, errors of equipment, etc.
6. Operators.
7. Hobby and reporting.
8. Dispatching.
9. Monitoring and management of energy consumption.
10. Safety management.



