



instrument

**2024
PRODUCT
INTRODUCTION**

IC Prepayment Intelligent Control System

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Company Profile

Weifang AOBO Instrument Technology Development Co., Ltd., founded in 2002, with registration capital of 10 million RMB, is a "High-Tech" and "Double-Software Certification" enterprise specialized in "flow measurement and intelligent measurement & control" industry, integrating R&D, production, sales and service.

The company has a core R&D team for computer software and technology, automatic intelligent control, HVAC engineering design and flow measurement. It has the ability to provide customers with specific solutions and complete sets of products according to their different needs, based on years of practical experience. Especially in the heating industry, by the customer's recognition, has a high reputation in the industry.

The products are mainly used in the measurement and control of "steam, liquid, gas, sewage and tap water"; and especially suitable for energy monitoring and energy-saving control in many industries, such as thermal power plants, thermal companies, residential heating, petroleum, chemical industry, papermaking, food, coating, printing & dyeing and HVAC.

Since its foundation, based on self-developed and leading technology, reliable quality, high-quality service and good reputation, our company has been warmly accepted by customers, and become a designated supplier for many central enterprises and listed companies.

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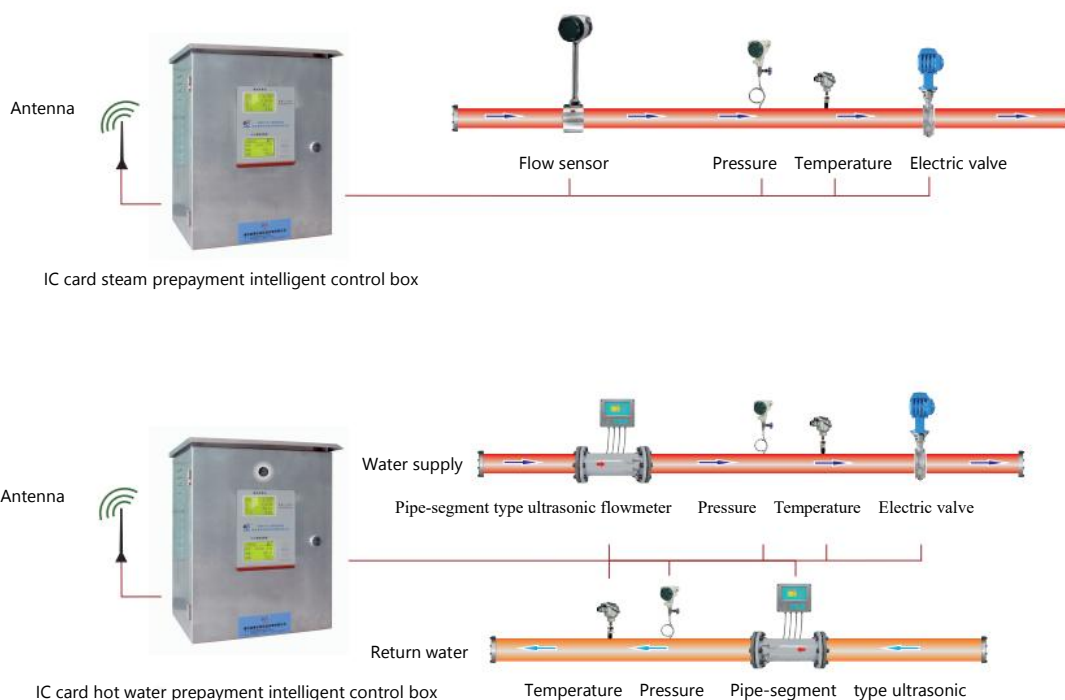
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All of the catalogue and company information can be found at:

WWW.AOBOINSTRUMENT.COM

I. Product Overview

In order to avoid charging disputes and reduce contradictions between energy suppliers and demanders, and allow the energy users to consume clearly, ABDT-IC card prepayment intelligent control system, independently developed by our company, has been popularized and applied in the heating industry, and which has been highly praised and created good economic and social benefits.



II. System

(1) Smart radio frequency

Contactless IC card is adopted to completely solve the defect of poor contact of contact IC card.

(2) Advanced system

Full English/Chinese liquid crystal display, with intelligent prompts and convenient operation.

(3)High confidentiality

The charging equipment has higher confidentiality, based on the unique equipment number, dynamic and encrypted data, and the strategy of one card and one password for one machine.

(4)Alarm function

Automatic system SMS alarm and audible and visual alarm of the upper computer are supported for insufficient allowance, illegal open-box and power failure, etc; the system can set the upper and lower limit of alarm by itself, monitor the operation of pipe network in real time, send out alarm messages if necessary, and automatically record the related data and provide a report.

(5)Mobile office

The system supports remote viewing of real-time data, and which is convenient to query at anytime and anywhere through web page and application software.

(6)Valve feedback

To control over range steam consumption, the feedback monitoring function is given for valve opening, realizing flow control and accurate measurement.

(7)Patrol inspection Assessment

Record and upload inspection time of the inspection personnel at any time, which can be queried in real time to realize one card for one person and multiple cards for one machine.

(8)Charging method

There are several charging methods, including remote recharge, tiered charging and period computation.

(9)Pipe warming function

The system simulates manual valve opening operation, and the valve opening can be set intermittently to prevent condensate or steam from impacting the pipeline.

(10)Take photos when opening the control box

With the function of taking photo when open the control box, the system can upload the open-box time and photos to the upper computer in time.

III. System Principle

In the system, IC card controller is connected with the flow (heat) totalizer, and the data of the flow totalizer (including instantaneous flow, cumulative flow, pressure, temperature, density, power-off time, setting parameters, etc.) are transmitted to the controller through serial communication. After IC card recharging, the amount purchased by the user is input the controller by keeping the card closer to the IC card sensing area to prompt the successful card swiping. The internal microprocessor CPU carries out real-time calculation, comparison, logical judgement and other data processing on the received instrument data and IC card input data. When the recharge amount of IC card (the amount of steam purchased) is less than or equal to the setting balance alarm value, the controller buzzer will alarm, the remote meter reading software will alarm in a web page, and send a message to mobile phone of the designated person; When the steam margin is less than or equal to the valve closing margin, the controller sends a signal to close the valve and sends a message to the designated mobile phone number. The closing degree of the valve can be controlled according to the requirements, realizing the purpose of automatic management of prepayment.

IV. System Advantages

1. Solving the problem of collecting fees

The system adopts the prepayment mode, paying first and then using energy, to completely solve the problem of collecting fees.

2. Multiple equipment functions and full system functions

IC card prepayment intelligent control box can send alarm message and realize upper computer audible and visual alarm through the monitoring system for illegal power failure and illegal open-box. At the same time, the controller can also cooperate with the electric valve to carry out automatic or remote control of steam consumption, preventing the

occurrence of over range consumption and improving the security of field equipment operation.

3. Dual power supply without fear of malicious power failure

IC card prepayment intelligent control box is equipped with UPS power supply system, in order to ensure the normal operation of field instruments for a long time in case of power failure, and truly protect the vital interests of users.

4. Customized service and strong compatibility

IC card prepayment intelligent control box can simplify or add the feasible functions according to the users' needs. At the same time, the control box can be connected with a variety of instruments (steam meter, water meter, gas meter, etc.), and the upper computer monitoring system can monitor more than 10 real-time data at the same time and generate a variety of detailed reports, which can really improve efficiency for the users.

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