



instrument

**2024
PRODUCT
INTRODUCTION**

Intelligent Flow/Heat Totalizer

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.

Contact

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

WWW.AOBOINSTRUMENT.COM

I. Product Overview

ABDT-FC6000W Intelligent flow/heat totalizer is a heat metering instrument, with 12864 graphical point LCD display, Chinese/English menu setting, 32-bit single chip computer as the core, 24-bit A/D converter to collect analog signal and 12-bit D/A converter to output (4-20) mA signal. The



instrument can receive pulse signal or analog current signal output by dual channel flow sensor and transmitter, and receive dual channel pressure and dual channel temperature signal to form a high precision flow&heat measurement system. The instrument displays parameters such as instantaneous water supply, instantaneous backwater, water supply accumulation, backwater accumulation, instantaneous heat (cold) amount, accumulated heat (cold) amount, water supply pressure, backwater pressure, water supply temperature, backwater temperature, density, enthalpy value; the instrument has continuous automatic compensation function. The instrument has parameter programming setting function. Setting parameters and accumulated flow value will continue to be maintained after power failure.

The Modbus communication technology with RS232/485 interface can be networked with various networks or industrial buses to realize remote meter reading.

II. Performance Parameter(s)

Flow input signal	Receive dual channel frequency signal or (4-20) mA current signal
Pressure input signal	Receive dual channel pressure transmitter (4-20) mA current signal
Temperature input signal	Receive dual channel Pt (100,1000) platinum resistance signal and dual channel temperature transmitter (4-20) mA current signal
Accuracy	Flow: Grade 0.2; Heat: Grade 0.5

Communication	RS232 or RS485 interface, standard MODBUS protocol; Support dual channel communication
Free configuration function	It has dual channel flow, dual channel temperature and dual channel pressure input functions of each parameter, and various flow operation modes can be programmed and combined
Display function	Instantaneous heat, accumulated heat, water supply temperature, backwater temperature, water supply heat enthalpy, backwater heat enthalpy, water supply pressure, backwater pressure, water supply instantaneous flow, water supply accumulated flow, backwater instantaneous flow, backwater accumulated flow, etc.
Power-off protection	The results of the operation and the data set by the user will not be lost during power failure and it can be saved for more than 10 years.
Working power supply	AC220V $\pm$ 15%, DC12V $\pm$ 5%, power dissipation<5W
Feed output	There are two groups. One is 12V/30mA and another is 24V/200mA
Work environment	Temperature:(-10~60) $^{\circ}$ C; Humidity:(5-85)%RH
Hole size	153*77 (L*W, in mm)
Outline size	160*80*120 (W*H*D, in mm)

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