



instrument

**2024
PRODUCT
INTRODUCTION**

Intelligent Flow 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-MC51-Y2 Intelligent Flow Totalizer is a general flow integrating instrument with 16-bit ultra-low power single chip computer as the core and smart Chinese/English menu configuration.

With reliable working performance, it completes the flow metering calculation function of steam,

gas and liquid. It can compensate the temperature and pressure of the fluid in real time and receive flow, temperature, pressure and other signals. The signal can be frequency, current, differential pressure, resistance and other types. The signal processing adopts no switching contact and potentiometer adjustable parts technology to make the measurement more accurate and more reliable.

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)

Input signal	Frequency signal, (4-20) mA current signal, differential pressure signal, PT100 platinum resistance signal
Output signal	(4-20) mA current signal
Accuracy	Grade 0.5
Communication	RS232 or RS485 interface, standard MODBUS protocol
Display function	Display instantaneous flow, cumulative flow, pressure, temperature, frequency, current, differential pressure, density, power-off times, power-off/power-on times of the last time, cumulative power-off times, cumulative power-on time, date, time etc.
Self-diagnostic function	During steam measurement, the temperature pressure compensation is

	determined automatically. When the field temperature is lower than the corresponding saturated steam temperature of the pressure, it compensates according to the saturated steam operation mode, otherwise, it compensates by the superheated steam
Small signal removal function	In the environment of slight vibration or interference, it has the function of removing the interference signal, which improves the measuring stability of the instrument
Power-off protection function	The results of the operation and the data set by the user will not be lost during power-off and it will be saved for more than 10 years
Working power supply	AC220V±15%, DC12V±5%, power dissipation<5W
Feed output	Two groups, one group is 12V/30mA and another group is 24V/200mA
Work environment	Temperature: (-10~60)°C; Humidity: (5-85)%RH
Opening size	153 * 77 (L*W, in mm)
Outline size	160*80*120 (L*W*D, in mm)

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