# TVAS-5000 Calorific Value Analyzer

## Product Overview

Message Email

Based on infrared gas absorption analysis method, TVAS-5000 calorific value analyzer adopts intelligent digital processing technology to realize the analysis process of gas concentration value and calorific value in gas. It has the characteristics of high degree of automation, strong function, easy operation and digital communication.

concentration and calorific value

Color LCD screen display, display information clearly.

Touch screen operation, easy to operate.

4-20mA current loop output.

8-way switch quantity (relay) output.

RS232 communication, easy to expand to RS485

## Technical Indicators

Typical Range: CO: 0-100%, CO2: 0-50%, O2: 0-25%, H2: 0-10%

Working Environment Temperature: (5-45)℃

Linearity Deviation: ±2%FS

Stability: ±2%FS/7d

Repeatability: 1%

Response Time (T ): ≤25s 90

Ambient Temperature Influence: ±2%FS (5-45)℃

## Working Principle

Spectral absorption method shows that many gas molecules have characteristic absorption in the infrared band. According to the Lambert-Beer law, the characteristic absorption intensity is proportional to the gas concentration.

analyzer. The TVAS-5000 calorific value analyzer adopts the mature and reliable analysis method in the field of gas analysis, and selects the international advanced MEMS infrared light source and dual-channel infrared detector. TVAS-5000 calorific value analyzer analyzes and measures CO and CO2 by NDIR method, analyzes H2 concentration by thermal conductivity method, analyzes O2 concentration by electrochemical method, and then calculates the calorific value according to the gas calorific value coefficient.

Touch screen operation, easy to operate.

## Technical Advantages

- NDIR measurement method, easy to use, replaces the combustion
- method calorific value meter.
- The design of the dual-channel detector effectively improves the
- stability of the instrument.
- Eliminate the influence of CO2 on H2 interference through dynamic compensation.
- The isolated current loop output and switch output can eliminate the influence of various external disturbances on the instrument measurement.

metallurgical industry

- Composition and calorific value measurement of industrial gas in the field of coal gasification

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