# Direct-Reading Flue Gas Velocity and Humidity Instrument

YQ-1208

## Overview

The YQ-1208 measures flue-gas humidity using a resistive/capacitive method and also measures flow velocity, flue-gas temperature and other operating parameters. The brochure lists uses at boilers and kilns in environmental protection, disease control, military, education and research.



## Technical specifications

| Parameter | Range / value | Resolution | Accuracy / error |
|---|---|---|---|
| Flue-gas humidity | (0-40.0)% | 0.01% | Calibration range ≤5.00%: absolute error ≤±0.7%; >5.00%: relative error ≤±15% |
| Flue-gas temperature | (0-180.0)°C | 0.1°C | ±2.0°C |
| Flue-gas dynamic pressure | (0-4000)Pa | 1Pa | ±1.0% |
| Flue-gas total pressure | (-30-30)kPa | 0.01Pa | ±1.0% |
| Atmospheric pressure | (60-130)kPa | 0.1kPa | ±0.5kPa |
| Flue-gas velocity | (5-45)m/s | 0.01m/s | ±4.0% |
| Dimensions | (1750×170×80)mm | | |
| Probe length | 1.75m (customizable) | | |
| Power consumption | <6W | | |
| Weight | <3.5kg | | |
| Operating voltage | Built-in lithium battery or DC12.67V | | |

## Technical features

- Integrated, lightweight portable design.
- Imported resistive/capacitive humidity sensor with fast response and short stabilization time.
- Front-mounted sensor directly measures duct humidity.
- High-brightness, wide-temperature display for operation and data lookup.
- Built-in lithium battery supports use without external power.
- Built-in Bluetooth module; optional Bluetooth printer.
- Front heating module helps prevent condensation on the sensor surface.

## Standards listed in the brochure

- GB/T 16157-1996 - Stationary source exhaust: particulate determination and gaseous pollutant sampling
- HJ 836-2017 - Stationary source waste gas: low-concentration particulate determination by gravimetry
- T/SSESB 000001-2020 - Stationary source waste gas: humidity measurement by resistive/capacitive method

## Standard accessories

- Main unit
- Fabric bag
- Charger

## Optional accessories

• Bluetooth printer

## Source and review notes

• The flue-gas total-pressure range is in kPa but its resolution is printed as 0.01 Pa; retained pending confirmation.
• The brochure prints operating voltage as DC12.67V; retained as printed.
• Performance and standards have not been independently verified.
• English translation has not received native-speaker technical review.