Integrated Particulate Sampling Probe (Preprocessing Type)

YQ-1230

Overview

The YQ-1230 preprocessing sampling probe integrates flue-gas sampling, dry/wet-bulb moisture measurement, Pitot tube, filter-cartridge, filter-membrane, oil-fume and flue-gas preprocessing functions. Its sampling head is heated for high-humidity conditions. The brochure describes titanium-alloy/stainless-steel construction.



Technical specifications

Parameter	Range / value	Accuracy
Particulate concentration	(60-160)°C	±10°C
Cooling temperature	(0-9)°C	/
Sampling-probe length	1.5m (other lengths customizable)	
Power supply	DC24V 5A	
Sampling-probe material	Titanium alloy / stainless steel	

Technical features

- Titanium-alloy or stainless-steel construction, lightweight and corrosion-resistant.
- Integrated design permits switching between filter-cartridge, filter-membrane and oil-fume sampling.
- Built-in dry/wet-bulb moisture module.
- Built-in flue-gas preprocessor supports particulate and gas sampling with one probe.
- Adjustable heated sampling head.
- Overall length 1.5m; other lengths customizable.
- High-performance microcontroller for convenient operation and rapid dewatering.
- PTFE tubing in the main gas path reduces measured-gas adsorption.
- Ring heating rapidly heats the measured gas.
- Double-layer Peltier cooling rapidly separates gas and liquid.

Standards listed in the brochure

- HJ/T48-1999 - Technical requirements for particulate samplers
- GB18483-2001 - Emission standard for cooking oil fumes
- HJ 836-2017 - Stationary-source waste gas: low-concentration particulate determination by gravimetry
- DB37/T2537-2014 - Shandong stationary-source waste gas: low-concentration particulate determination by gravimetry

Standard accessories

- Main unit
- Fabric bag
- Sampling nozzle

Source and review notes

- The first parameter is labelled particulate concentration in the brochure, but its range and accuracy use temperature units °C; reproduced as printed pending confirmation.
- This preprocessing type is recorded separately from other YQ-1230 variants; parameters have not been merged.
- Specifications and standards have not been independently verified.
- English translation has not received native-speaker technical review.