

Reliable process control for furnaces, metal industry, semiconductor and gas separation

He Ar H₂ CO₂ CH₄

ZAF



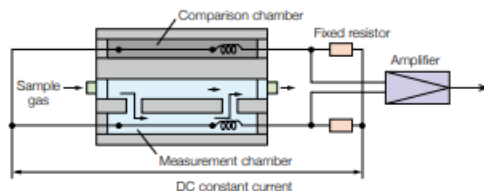
Features

- Easy-to-see LCD
- RS-232C Modbus® (option)
- Auto calibration (option)
- Interference compensation (option)
- Concentration alarm output (option)
- Two switchable ranges (option)

Specifications

Principle	Thermal conductivity
Components	He, Ar, H ₂ , CH ₄ , CO ₂
Measurement range	Depends on components and ranges
Repeatability	±1% FS
Linearity	±2% FS
Response time (for 90%)	≤ 60 s (standard), ≤ 10 s (fast response version)
Output signal	4–20 mA DC, 0–1 V DC, or 0–10 mV DC
Contact output (option)	5 SPST-NO contacts: during calibration, H/L alarm, etc.

Principle



Because the thermal conductivity is different among gas components, when there is a change in the concentration of the component under measurement, the thermal conductivity of the sample gas will change to affect the temperature of the platinum wire. The analyser uses the temperature change to determine the gas concentration.

Contact input (option)	3 volt-free contacts; output hold, range switching, auto-calibration start
Display	Backlit LCD
Communication (option)	RS-232C Modbus®
Mounting	Panel mounting
Power supply voltage	100–240 V AC, 50/60 Hz
Dimensions	192 (W) × 240 (H) × 213 (D) mm
Weight	Approx. 5 kg

Measurable components and ranges

Sample gas	Reference gas*1	Measurement range	Maximum range ratio
H ₂	N ₂ , (CO ₂ , Ar, He)	0 ... 3, 5, 10, 20, 50, 80, 100% 100 ... 90%, 100 ... 80%	1 : 10
He	N ₂ , (CO ₂ , Ar), O ₂ , Air	0 ... 5, 10, 20, 30, 40, 50, 80, 100% 100 ... 90%, 100 ... 80%	1 : 10
Ar	N ₂ , O ₂ , Air, (He)	0 ... 10, 20, 50, 80, 100% 100 ... 90%, 100 ... 80%	1 : 5
CH ₄	N ₂ , (CO ₂ , Ar, He)	0 ... 20, 40, 50, 60, 80, 100% 100 ... 80%	1 : 5
CO ₂	N ₂ , O ₂ , Air, (He)	0 ... 10, 20, 50, 100% 100 ... 90%	1 : 5

*1: Those in parenthesis need consultation. Measurement of H₂ included in O₂ is not available.