



PORTABLE CP ANALYZER



Fuji Portable CP Analyzer is used to measure CP (Carbon Potential) value of the inside furnace such as a Carbonized furnace or a Generation furnace. CP value is calculated by the following 3 parameters, the measuring value of CO₂, supposed setting value or measuring input with K type TC temperature of the inside furnace and the supposed setting value CO concentration. A high level accuracy infrared system is adopted to measure CO₂ concentration. The purpose of this analyzer is to check the accuracy of a Zirconia Oxygen sensor, which is used to control CP value, related to ISO9000.

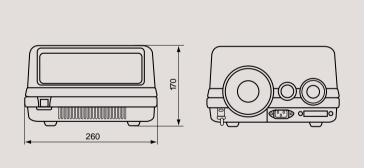
Features

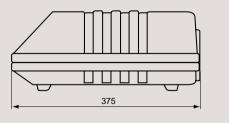
- Compact and light-weight.
- A high level accuracy infrared system is adopted to measure CO₂.
- CP analyzer offers high traceability calibration by a traceability standard gas.
- Display adopts a large LED.
- The analyzer built-in sampling device such as a pump, a filter and a flow meter.

Specification

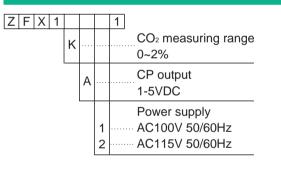
TIPE	ZFX1KA11
Measuring System	Calculate CP value which used on CO ₂ (measuring value), temperature of inside furnace
	(Set up value or measuring value), CO(set up value only)
Measuring Component	CO2 in Gas generator furnace or Carburizing furnace
Measuring Principle for CO ₂	Non-dispersion infrared(NDIR) absorption method
Measuring range for CO ₂	0-2 vol%
Value of Temperature	800-1000°C(K-thermocouple or set up value)
CO concentration	20-35%(each 0.1%)
Measuring range of CP value	0.2CP ≥ (Temperature is 890°C)
(CO 30%)	$0.5CP \ge (Temperature is 820^{\circ}C)$
	$0.7CP \ge (Temperature is 800^{\circ}C)$
Function	
CO ₂ Repeatability	±0.5% FS
• CO ₂ Drift	Both Zero and Span : ±2% FS/day
CO ₂ Linearity	Range 0-1% : ±1% FS, Other range : ±2% FS
Repeatability of temperature	±1°C
Response time	Within 30 seconds (for 90% response)
Flow rate of sample gas	Approx.1L/min(built-in pump, filter and flow meter)
Output singal	CP : 1-5VDC(0-2.0CP)(to change 4-20mA, put in resistance of 250Ω)
Display	\cdot 4 digit LED for CP value or CO ₂ value \cdot Set-up value or measurement value of temperature
CO ₂ Calibration	Standard gas(N ₂ , CO ₂ /N ₂)
Power supply	100,115V AC±10%, 50/60Hz, approx. 60VA
Sampling Gas conditions	CO ₂ : 0-2% CO: 20-35% H ₂ : 30-67% H ₂ : 30-67%
	Dew point : $\leq 20^{\circ}$ C Dust : 0-10mg/Nm ³
Operation conditions	Ambient temperature : 10-40°C Ambient humidity : \leq 90%RH
	Installation condition : In door
External dimension (HxWxD)	170H x 260W x 375Dmm
Mass	Approx.5kg

Outline [Unit : mm]





Symbol code



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