

AUTOMOBILE EXHAUST GAS ANALYZER

MODEL : ZKE23 : (CO/HC/CO₂)
ZKE24 : (CO/HC/CO₂/O₂)



About 25 years have passed since Fuji Electric first marketed a CO/HC automobile exhaust gas analyzer. The high-level technology incorporated in these instruments has been highly evaluated by users nationwide. A new analyzer has now been developed in answer to demands for an even better instrument. This new analyzer is easier to handle by using user friendly human-machine interface. It can measure 6 parameters (CO, HC, CO₂, O₂, A/F and λ). CO, HC and CO₂ are measured by solid-state NDIR sensor. O₂ is measured by Galvanic sensor. This instrument completely fulfills the various requirements of an analyzer and is expected to fully satisfy users' expectations.

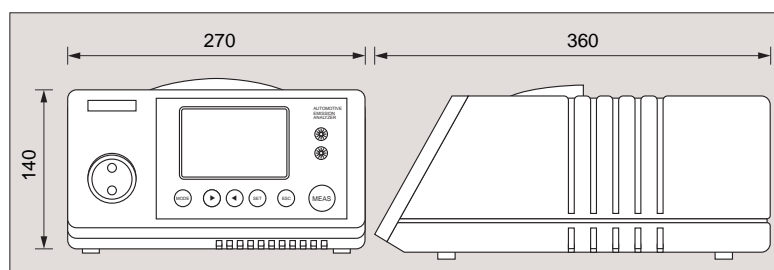
Features

- 4 components (CO, HC, CO₂ and O₂) can be measured and calculated A/F (Air/Fuel ratio) or λ (excess air ratio)
- A large LCD display with fluorescent back light displays 4 components, A/F and λ .
- A small size and high reliable solid-state NDIR sensor for CO, HC and CO₂ and Galvanic O₂ sensor provides a high level of accuracy, avoids the influence of vibration and shock.
- Display of sampling abnormality like as incorrect insertion of the probe and sampling line or membrane filter clogging.
- Compact design and lightweight (approx. 5kg).

Specification

TYPE	ZKE
Measurable components	CO+HC+CO ₂ +(O ₂) () ; Option
Measuring principle	CO, CO ₂ , HC ; NDIR O ₂ ; Galvanic Cell
Measuring range	CO, 0.00~10.00vol% HC ; 0~10000ppm or 0~14000ppm CO ₂ ; 0.00~20.00vol% O ₂ ; 0.00~25.00vol% (Option) A/F ; 10.0~30.0 λ ; 0.50~2.50
Display (minimum indication)	LCD display 4 digits and 5 digits CO (0.01vol%) HC (1ppm) CO ₂ (0.01vol%) O ₂ (0.01vol%) A/F (0.1) λ (0.01)
Repeatability	CO ; $\pm 0.06\text{vol\%}$ or $\pm 5\%$ of reading whichever is greater HC ; $\pm 12\text{ppm}$ or $\pm 5\%$ of reading whichever is greater CO ₂ ; $\pm 0.5\text{vol\%}$ or $\pm 5\%$ of reading whichever is greater O ₂ ; $\pm 0.5\text{vol\%}$ or $\pm 5\%$ of reading whichever is greater
Response time	90% response less than 15sec (CO, HC & CO ₂) less than 25sec (O ₂)
Warm up time	Less than 5min.
Output	RS232C
Printer	Model BS-80tsd separately connected (separately ordered)
Electrical calibration	Auto calibration
Self diagnosis	Warming up time Improper insertion Clogging of filters and/or sampling line
Power supply	AC90~264V 50/60Hz
Ambient temperature	0~40°C
Ambient humidity	Less than 90%RH
Mass	Approx. 5kg
Outline dimension (H x W x D)	145 x 270 x 360mm

Outline [Unit : mm]



Ordering code for consumables

Name	Code	Remarks
Primary filter element	ZBNH3012	20pcs/1box
Membrane filter element	ZBNC6102	100pcs/1box
Packing for primary filter and drain separator	ZBNN2012	10pcs/1pack
O-rings for membrane filter	ZBNN3012	10pairs/1pack
Tube type fuse	ZBNM2012	10pcs/1pack 1A
Standard gas	ZBM4NVQ4-00	CO, CO ₂ , HC, N ₂

Symbol code

ZKE	2		1	1
				Letters
	2			Display:English
				Measurable components
		3		CO/HC/CO ₂ measurement, A/F, λ indication
		4		CO/HC/CO ₂ /O ₂ measurement, A/F, λ indication
				Measuring range
		1		CO:0~10% HC:0~10000ppm, CO ₂ :0~20%
		2		CO:0~10% HC:0~10000ppm, CO ₂ :0~20%, O ₂ :0~25%
		3		CO:0~10% HC:0~14000ppm, CO ₂ :0~20%
		4		CO:0~10% HC:0~14000ppm, CO ₂ :0~20%, O ₂ :0~25%

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