

## Flame-proof type **Thermal conductivity gas analyzer Type. ZAFE**

# **Optimum for concentration measurement for H2, Ar and He.**



Ex. NEPSI Cert NO. GYJ13.1036X Ex. Marking: Exd IIC T6Gb

• Operation is facilitated with the aid of guidance in English.



arm Setting Select an item with UP/DOBW and ENT Back with ESC D01 Range 1 0.200 vol% D01 Range 2 07.00 vol% Upper2 Range 2 06.50 vol% Kind of Alarm Upper 2 Hysteresis D0 %FS 0%/0FF 0 FF

Operation facilitated with easy-to-read,large LCD panel. Free voltage on 100 to 240V AC, 50/60Hz. Automatically calibrates zero/span. (option) Computes and corrects influence by other gases. (option) Two measuring range. (option) Gas concentration alarm output. (option) RS232C (MODBUS) communication. (option)



#### Standard spcifications

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Measuring principle		thermal conductivity		
Measurable	H2	0 to 3%100%, 100 to 90%, 100 to 80%		
component and	He	0 to 5%100%, 100 to 90%, 100 to 80%		
Measurable range	Ar	0 to 10%100%, 100 to 90%, 100 to 80%		
	CH <sub>4</sub>	0 to 20%100%, 100 to 80%		
	CO <sub>2</sub>	0 to 10%100%, 100 to 90%, 100 to 80%		
Output signal		4 to 20mA DC, 0 to 1V DC, 0 to 10mV DC		
		Isolated output		
		(Any one-output signal specifiable in code symbols)		
Display unit		LCD with backlight		
Display of measured		Max.4 digits		
value				
Output signal holding		In both manual and aitomatic calibrations,output		
		value jast before calibration can be hold.		
Power supply		100 to 240V AC, 50/60Hz approx.50VA		
External dimensions		470×354×211mm		
(H×W×D)				
Mass.		22kg		

#### Outline diagram (Unit: mm)

Repeatability	±1%FS
Linearity	±2%FS
Drift	Zero point: within ±2% of full scale/week (H2 me
	Span: within ±2% of full scale/week (H2 meter)
Response time	Satandard within 60 sec (at flow rate 0.4L/min).
(90% response)	High speed within 10 sec (at flow rate 1L/min)
<b>Option spcifica</b>	ations
Realay contact output	5 STPT relay contact outputs
	1) Solenoid valve drive output for automatic
	calibration
	2) Upper/Lower limit concentration alarm outpu
	3) Analyzer error aram output
	4) Calibrating status output
	5) Range information output
Contact input	3 non-voltage contact inputs
	1) Remote holding of measured value output
	2) Remote range changeover
	3) Remote start of automatic calibration
Interference gas	Analog input for H <sub>2</sub> meter interference correction
measured value input	(1 to 5V DC)
Automatic calibration	Zero and Span calibrations are automatically
function	carried out at the predetermined intervals
Communicating function	RS-232C (MODBUS)

Temperature 0 to 50°C   Gas flow rate Constat at 0.4L/min
Gas flow rate Constat at 0.4L/min
Constat at 1L/min (high responce)
Dust Less then 100µg/Nm <sup>3</sup> with a particle size of
0.3 μm max.
Pressure 10 kPa max
Mist, Corrosive gas Unallowable
Moisture Below saturation at 2°C
Standard gases for Zero gas: same as reference gas or as
calibration specified
Span gas: Concentration within 90 to 100% of
measuring range





### F Fuji Electric Co., Ltd.

#### **Grobal Sales Section**

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