

# TOKA

## SINGLE-UNIT TYPE

# COMBUSTIBLE GAS ALARM

PERMANENT TYPE

MODEL

# TS-303 SERIES

Explosion-proof Certificated by Ministry of Labor and NK (Nippon Kaiji Kyokai)

## HIGHLY RELIABLE CATALYTIC COMBUSTION PRINCIPLE

Introducing our new gas alarm TS-303 that will make an epoch in the field of gas detectors.

### Features

- 1 Highly rugged ABS plastics (UL standard) gives the indication unit anticorrosiveness, arc-resistance and insulation.
- 2 Light weight (ONLY 1.3kg : AC100V standard)
- 3 Feather-touch pushbutton operation.
- 4 Drip-proof construction and Flat design without projections.
- 5 A variety of optional functions. (See back)
- 6 Dimmer Switch provided.
- 7 More than 2 indication units can be jointed together.
- 8 Saving-energy design of low power consumption.
- 9 Highly integrated PC Board makes maintenance easier.
- 10 Detection units excels in anti-corrosiveness due to aluminum alloy 7A.



# TOKA SEIKI CO., LTD.

## Optional Functions

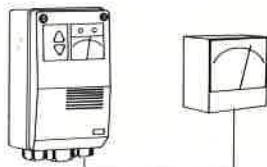
Newly designed TS-303 gives plenty of optional functions as below.

Alarm-Priority



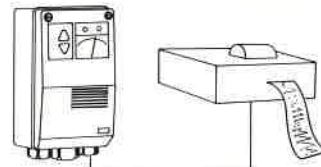
Push of Reset Sw. cannot silence the buzzer while the concentration of gas is over alarm level.

Sub-Meter



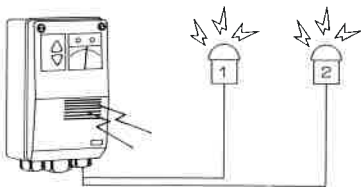
Gas leakage can be supervised at remote area connecting with an outer meter.

Record output



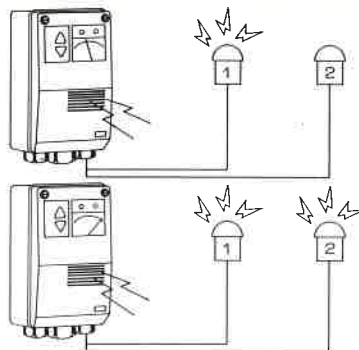
History of gas leakage using an external recorder will give a hint to security activity.

2nd contact for EXT. alarm



Though standard model provides one external alarm contact, another contact can be given. (Lamps, buzzers or others of 2 places can be operated.)  
[1 and 2 work at the same time]

High & Low Alarm



Adding to the standard 1st stage alarm, 2nd stage alarm makes the gas leakage properly managed according to the stage. [1 works earlier than 2.]

## Specifications

(N.B. Specifications are subject to change without notice.)

### INDICATION UNIT

Descriptions	Combustible Gas Alarm							
Casing Material	Glass Fiber Contained ABS Plastics (UL Regulations V-O approved)							
Model Name	TS-303	303P	303FL	303PFL	303A	303AP	303AFL	303APFL
Power (V)	DC24V (+40%~-20%)				AC100V (±10%) or others			
Fittings	Wall hanging		Panel Flushing		Wall hanging		Panel Flushing	
Detector type	Diffusion	Suction	Diffusion	Suction	Diffusion	Suction	Diffusion	Suction
Power consumption (W)	7	14	7	14	7	9	7	9
Dimensions (mm)	Wall hanging 207×120×73				Panel Flushing 224×140×60			
Weight (Net)	0.8	0.9	1.3	1.4	1.3	1.3	1.8	1.8
Detection principle	Catalytic Combustion (i.e. Hot Wire, Contact Combustion)							
Detectable gases	Combustible gases in air in general							
Measuring range	0~100%LEL (Lower Explosive Limit)							
Accuracy	Within ±5% of Full Scale							
Alarm point	20%LEL (variable)							
Accuracy of alarm	Within 25% of preset point							
Alarm display	Flickering red LED and buzzer							
Environmental condition	-10°C~+50°C under 95%RH							
External Alarm Contact	C-Contact (Normal Open, Common, Normal Close)							
Ext. Contact capacity	MAX. AC125V, 2A (Noninductive load) or under 60VA							
Optional Functions	Sub-meter			0~500μA Full Scale				
	Record output			0~10mV (non-linear)				
	2nd Contact			Normal Open or Normal Close				
	High & Low Alarm			Red LED · Normal Open or Normal Close				
Others	Dimmer Switch and Test Switch are provided.							
Color of coating	(Standard) Munsel 2.5 G 7/2							

### DETECTION UNIT

Model name	Diffusion-type DZF(3)	Suction-type DZP(3)
Dimensions	80(W)×130(D)×75(H)mm	160(W)×355(D)×290(H)mm
Weight	Vert. 1.5kg, Horz. 3.0kg	10kg
Explosion-proof classification	d <sub>2</sub> G <sub>1</sub> (JIS-C-0903)	
Power	DC1.5V, 330mA	DC 1.5V, 330mA and AC 10V
Power consumption	0.5W	1.5W
Explosion-proof certification number	Ministry of Labor No.20087 NK No.77T634	Ministry of Labor No.20088 NK No.78T617
Color of coating	(Standard) Munsel 2.5 G 7/2	

\* Please inform us of the power source voltage, the type and number of detection units when ordering.

DISTRIBUTED BY:



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