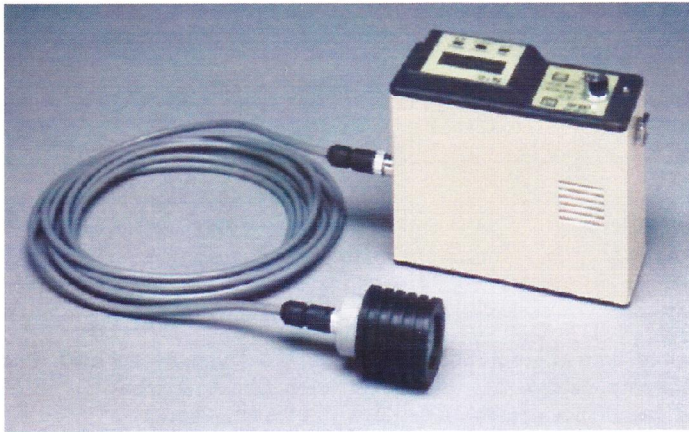


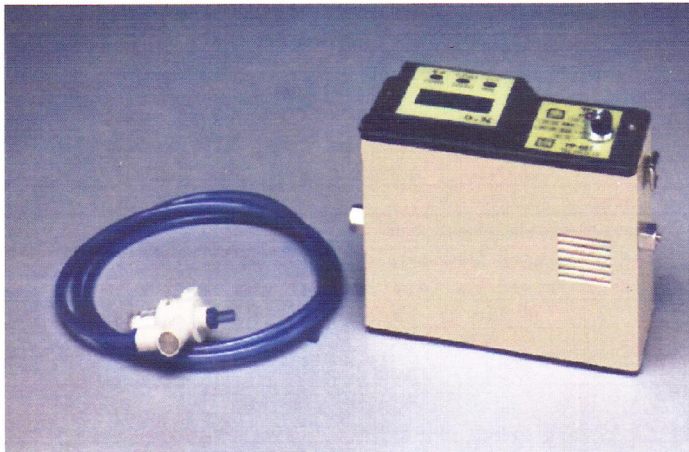


PORTABLE OXYGEN METER

TI P-OX series



DIFFUSION TYPE
(with remote sensor cable)
TI P-OXF



SUCTION TYPE
(with sampling tube)
TI P-OMP

DUAL PURPOSE OXYGEN MEASUREMENT

O_2 O_2 O_2 O_2 O_2 O_2 O_2 O_2 O_2 ex.:Prevent Lacking Accident of Oxygen

O_2 O_2 O_2 O_2 O_2 O_2 O_2 O_2 ex.:Monitor Oxygen Content in Inerting Gas

TI P-OX series provide dual oxygen measurement mode which means **Oxygen Decrease Mode** and **Oxygen Increase Mode** these are selectable by switch locate on front panel.

The **Oxygen Decrease Mode** are useful for protection of personal working to prevent lacking accident of oxygen.

The **Oxygen Increase Mode** are useful for monitoring oxygen content in inerting gas.

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FEATURES

- Two measurement mode selectable
(Oxygen Decrease Mode and Oxygen Increase Mode)
- Peak Hold function: Possible to get Maximum or minimum content
- Automatic Calibration by Air when measurement start
- Large LCD Indicator (3 digit)
- Two(2) Dry Cell (R20P) Battery operation
- Intrinsically Safe type Approved (i3aG4) by RIIS Japan
- Two(2) years Life Sensor
- Easy Maintenance
- Microprocessor inside

SPECIFICATIONS

MODEL	TIP-OXF	TIP-oxP
GAS COLLECTION METHOD	Diffusion type (Direct Sensing) with remote cable* (Cable length:5m standard)	Suction type by built-in Pump with sampling tube (1.5m standard) (Suction flow:600ml/min. nominal)
SENSING PRINCIPLE	GALVANIC CELL METHOD	
MEASURING GAS	OXYGEN in Atmosphere	
MEASURING RANGE	0~25% standard	
FUNCTIONS	Battery check / Oxygen Dec. meas. / Oxygen Inc. meas. / Peak Hold	
CONTENT INDICATOR	LCD panel (Minimum resolution 0.1% standard)	
ACCURACY	Within $\pm 0.7\%$ (based on JIS-T8201)	
DISPLAYS	POWER lamp / ALARM (AL1 / AL2) lamp / PEAK HOLD mode lamp	
ALARM LEVEL	Two User-adjustable alarm level AL1: Valid at Oxygen Decrease mode: ex. 18% AL2: Valid at Oxygen Increase mode: ex. 8% or 23%	
ALARM ACCURACY	Within $\pm 1\%$ (based on JIS-T8201)	
OPERATE CONDITIONS	-10~40°C (20~90%R.H.)	
POWER SOURCE	DC3.0V: Dry Cell R20P \times 2pcs	
RESPONSE	T90: within 20 sec	
LIFE OF BATTERY	30 hours at continuous operation	8 hours at continuous operation
DIMENSIONS	163(W) \times 137(H) \times 67(D)mm	
WEIGHT	1.6kg with sensor and 5m cable	1.3kg with sampling 1.5m tube
SAFETY APPROVAL	Intrinsically Safe: i3aG4	
	RIIS No.: 50453	RIIS No.: 50454
ACCESSORY	Leather Case / Hex. wrench for lid opening (2.5mm) / Instruction Manual	

*Cable Length: Available up to 20m maximum

INTRODUCTION for Sister Products **TIP-TX series** for TOXIC GAS measurement

TIP-TX series are available to measure toxic gases as bellow.

TIP-HR: for PH ₃ , AsH ₃ , SiH ₄ , B ₂ H ₄ , (Calibrated by PH ₃ : Range 0~4 / 0~20ppm)	
TIP-HY: for H ₂ (Range 0~150 / 0~750ppm)	TIP-HS: for H ₂ S (Range 0~30 / 0~150ppm)
TIP-HN: for HCN (Range 0~30 / 0~150ppm)	TIP-CL: for Cl ₂ (Range 0~30 / 0~150ppm)
TIP-CO: for CO (Range 0~150 / 0~750ppm)	TIP-SO: for SO ₂ (Range 0~30 / 0~150ppm)

THINK TOMORROW'S ENVIRONMENT ...

● Call to your local Agent

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TEL: +81-44-722-2000 FAX: +81-44-722-7460

TOKA

PORTABLE TOXIC GAS METER

TIP-TX series



Chlorine gas ————— T I P - C L

Hydrogen compound
(Semiconducting material gas) — T I P - H R

Hydrogen Gas ————— T I P - H Y

Sulfur dioxide ————— T I P - S O

Hydrocyanic acid ————— T I P - H N

Nitrogen dioxide ————— T I P - N D

Hydrogen sulfide ————— T I P - H S

Carbon monoxide ————— T I P - C O

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《Summary》

TIP-TX series is meter that raise an alarm over toxic gas.
Alert level is adopted two-staged type of AL1, AL2.

《Features》

- Peak hold function enable to memorize maximum density.
- Alarm is two-staged type.
- It could measuring two range.
- Auto-zero function could calibrate automatically at the time of power-on.
- Display is large and easily viewable LCD.
- Gas collection method is suction type.
- Long-life sensor (2 years, 1 year warranty) could minimize running cost.

《Specifications》

Model	Refer to the following table
Objective gas	Refer to the following table
Sensing principle	Potentiostatic electrolysis method
Gas collection method	Suction type
Measuring range	Refer to the following table
Display	3 digit display LCD panel, line indicator, alarm (AL1,AL2) light, peak hold mode light
Accuracy	Within $\pm 10\%$ in full scale
Response	90% response within 60 second
Alarm setting level	Two staged-type(AL1/AL2, user-settable): Refer to the following table
Alarm accuracy	Within $\pm 25\%$
Alarm display	Blinking LED, intermittence buzz
Working temperature	-10~40°C
humidity limit	20~90%RH
Power supply, operating time	R20P (size D battery) $\times 2$ pieces, continuous use for 8 hours
Dimensions, weight	163(W) \times 137(H) \times 67(D)mm, 1.3kg approximately
Accessory	Sampling tube (1.5m), Lether case, Hex. wrench, Instruction manual

《Objective gas for detecting》

Model	Objective gas	Measuring range (ppm)		Resolution	Alarm level (standard)	
		LOW range	HI range		AL1	AL2
TIP-CL	Chlorine gas	0~20	0~100	0.2ppm	5ppm	25ppm
TIP-HR	Hydrogen compound PH ₃ , AsH ₃ , SiH ₄ , B ₂ H ₆ (PH ₃ calibration)	0~4	0~20	0.1ppm	0.3ppm	1.5ppm
TIP-HY	H ₂ :Hydrogen gas	0~400	0~2000	1ppm	100ppm	500ppm
TIP-SO	SO ₂ :Sulfur dioxide	0~20	0~100	0.2ppm	5ppm	25ppm
TIP-HN	HCN:Hydrocyanic acid	0~40	0~200	0.2ppm	5ppm	25ppm
TIP-ND	NO ₂ :Nitrogen dioxide	0~20	0~100	0.2ppm	5ppm	25ppm
TIP-HS	H ₂ S:Hydrogen sulfide	0~20	0~100	0.2ppm	5ppm	25ppm
TIP-CO	CO:Carbon monoxide	0~200	0~1000	1ppm	50ppm	250ppm

●Any inquiry and offer call your reliable agent.

Think tomorrow's environment

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※ Specifications are subject to change without any prior notice.