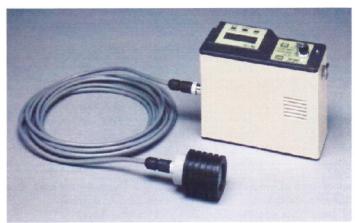
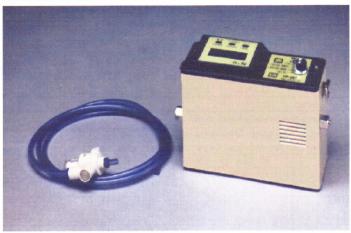


PORTABLE OXYGEN METER

TI P-OX series



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



SUCTION TYPE (with sampling tube)
TI P-OXP

DUAL PURPOSE OXYGEN MEASUREMENT

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 inertinggas.

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970502A(TK)

FEATURES

●Two measurement mode selectable

(Oxygen Decrease Mode and Oxygen Increase Mode)

- ●Peak Hold function:Possible to get Maximum or inimum content
- Automatic Calibration by Air when measurement start
- Large LCD Indicator (3 digit)
- ●Two(2) Dry Cell (R20P) Battery operation
- ●Intrinsically Safe type Approved (i 3aG4) by RIIS Japan
- ■Two(2) years Life Sensor
- Easy Maintenance
- Mi croprocessor i nsi de

SPECIFICATIONS

MODEL	TI P-OXF	TI P-OXP	
	Diffusion type (Direct Sensing)	Suction type by built-in Pump	
	with remote cable*	with sampling tube	
	(Cable length:5m standard)	(1.5m standard)	
		(Suction flow:600 ml/min. nominal)	
SENSING PRINCIPLE	GALVNI C C	ELL METHOD	
MEASURI NG GAS	OXYGEN in	Atomosphere	
MEASURI NG RANGE	0~25%	standard	
FUNCTI ONS	Battery check / Oxygen Dec. meas. / Oxygen Inc. meas. / Peak Hold		
CONTENT INDICATOR	LCD panel (Minimum resolution 0.1% standard)		
ACCURACY	Within ± 0.7%(based on JIS-T8201)		
DI SPLAYS	POWER lamp / ALARM (AL1 / AL2) lamp / PEAK HOLD mode lamp		
	Two User-adjustable alarm level		
ALARM LEVEL	AL1:Valid at Oxygen Decrease mode:ex. 18%		
	AL2: Valid at Oxygen Increase mode: ex. 8% or 23%		
ALARM ACCURACY	Within ± 1%(based on JIS-T8201)		
OPERATE CONDITIONS	-10~40°C (20~90%R.H.)		
POWER SOURCE	DC3.0V: Dry Cell	R20P × 2pcs	
RESPONCE	T90: with	in 20 sec	
LIFE OF BATTERY	ERY 30 hours at continuous operation 8 hours at continuous operat		
DI MENSI ONS	163(W) × 137(H) × 67(D)mm		
WEI GHT	1.6kg with sensor and 5m cable 1.3kg with sampling 1.5m tube		
SAFETY APPROVAL	Intrinsically Safe:i3aG4		
SAFETY APPROVAL	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 PH3, AsH3, SiH4, B2H4, (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 Cl2 (Range 0~30 / 0~150ppm)
TIP-CO:for CO (Range 0~150 / 0~750ppm)	TIP-SO:for SO ₂ (Range 0~30 / 0~150ppm)

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PORTABLE TOXIC GAS METER



Chlorine gas — T	I	P – C	
Hydrogen compound (Semiconducting material gas) — T	I	P — H	R
Hydrogen Gas ———————————————————————————————————	Ι	P-H	Υ
Sulfur dioxide ————————————————————————————————————	Ι	P — S	0
Hydrocyanic acid ————————————————————————————————————	Ι	P – H	Ν
Nitrogen dioxide ————————————————————————————————————	I	P – N	D
Hydrogen sulfide ————————————————————————————————————	I	P – H	S
Carbon monoxide————————————————————————————————————	1	P - C	0

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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》

"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±10% in full scale	
Responce	90% responce within 60 second	
Alarm setting level	Two staged-type(AL1/AL2, user-settable): Refer to the following table	
Alarm accuracy	Within ±25%	
Alarm display	Blinking LED, intermittence buzz	
Working temperature	-10~40°C	
humidity limit	20~90%RH	
Power supply, operating time	R2OP(size D battery) × 2 pieces, continuous use for 8 hours	
Dimensions, weight	163(W) × 137(H) × 67(D) mm, 1.3kg approximately	
Accessory	Sampling tube (1.5m), Lether case, Hex. wrench, Instruction manual	

《Objective gas for detecting》

Model Objective g	05:+:	Measuring range (ppm)			Alarm level(standard)	
	objective gas	LOW range	HI range	Resolution	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	NO₂:Nitrogen dioxide	0~20	0~100	0.2ppm	5ppm	25ppm
TIP-HS	H₂S: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