



TRANSPORTABLE GREENHOUSE GAS DETECTOR

TG-[]TEB/IR SERIES



NDIR Sensor

◆ Detectable Greenhouse Gases

Model	Gas Name	Range (ppm)	100-year GWP *
TG-4500TEB/IR	SF ₆	0 - 300	22,800
		0 - 5000	
TG-4600TEB/IR	N ₂ O	0 - 300	298
TG-4700TEB/IR	CF ₄	0 - 500	7,390
		0 - 5000	
	CHF ₃	0 - 500	14,800

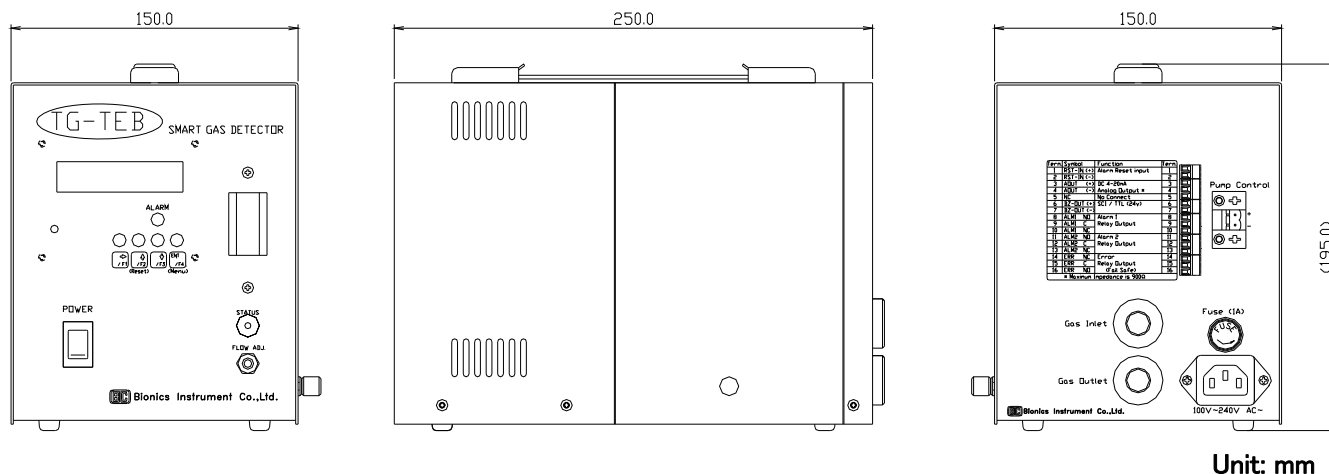
* IPCC's 4th (2007) Assessment Report

- ◆ Using NDIR (Non Dispersive Infrared) sensor
- ◆ AC 100 - 240 V operation
- ◆ Transportable type
- ◆ Compact and highly-densities design

Specification

Model	TG-4500TEB/IR		TG-4600TEB/IR	TG-4700TEB/IR		
Detectable gas	SF ₆		N ₂ O	CF ₄	CHF ₃	
Principle	NDIR (Non Dispersive Infrared)					
Range (ppm)	0 - 300	0 - 5000	0 - 300	0 - 500	0 - 5000	0 - 500
Min. alarm set amount (ppm)	50	1000	50	100	1000	100
Alarm accuracy	± 30 % of alarm setting amount					
Response time	T60 < 30 sec		T90 < 30 sec	T60 < 30 sec		
Sampling style	Sample draw (0.5 liter/min)					
Analog output	DC 4 - 20mA (Max. Load 900Ω)					
Alarm relay contacts	A1: dry c, A2: dry c, Err: dry c (fail safe action)					
Capacity of relay contacts	AC 125V, 0.3A max.; DC30V, 1.0A max. (resistive load)					
Type of pump	Diaphragm pump					
Sampling tube connection	Rc 1/4					
Operating Temp. / Humidity	0 - 40°C/ 20 - 90% RH (no condensing)					
Power requirement	AC 100 - 240V					
Power consumption	Approx. 15 W					
Dimensions (mm)	Approx. 150 (W) × 195 (H) × 250 (D)					
Weight	Approx. 4 kg					

Dimensions



※We reserve the right to change specifications without notice.

Bionics Instrument Co., Ltd.

6-1254-2 Shimizu, Higashi-yamato, Tokyo, 207-0004 Japan

TEL: +81-42-561-4856 FAX: +81-42-565-3950

e-mail: trade@bionics-japan.co.jp URL: <http://www.bionics-japan.co.jp/en/>

Bionics Instrument Europe B.V.

Maxwellstraat 7, 1704 SG Heerthugowaard, The Netherlands

TEL: +31-72-576 5630 FAX: +31-72-572 1818

e-mail: sales@bionics-europe.com URL: <http://www.bionics-europe.com>

PureAire Monitoring Systems Inc.

557 Capital Drive, Lake Zurich, IL 60047, USA.

TEL: +1-847-726-6000 FAX: +1-847-726-6051 Toll Free: 888-788-8050

e-mail: info@pureaire.net URL: <http://www.pureairemonitoring.com>

Global Bionics Trading Corp.

No.18, Alley 29, Lane 335, Chenggong Rd., Hukou Township, Hsinchu County 30345, Taiwan.

TEL: +886-3-553-8986 FAX: +886-3-553-8987

e-mail: gbionics@ms56.hinet.net URL: <http://www.bionics.com.cn>