

BC SMART GAS DETECTOR

Model TG-[*]XTM ^{-A**}
-B



Front view: TG-100XTM

DESCRIPTION

The Model TG-[*]XTM Series have been developed as the replacement of previous unit TG-[*]XA with the exactly same size of TG-[*]XA.

There are two models. The TG-[*]XA unit can be replaced by the first one TG-[*]XTM-A because of AC operation. The second one TG-[*]XTM-B is newly based on DC 24V.

These units are suitable for exhaust gas monitoring with the Bionics electrochemical gas sensor series feature dedicated monitoring of a selected exhaust gas.

You can select one of a wide variety of sensors for specific gas monitoring

This monitor is useful for a wide range of sensors, such as gas cabinets, scrubbers or stacks.

*3- or 4- digit number which representing the detectable gas shown in Detectable gases table.

**“-A” stands for AC power operation and “-B” stands for DC 24 V operation.

TYPICAL APPLICATIONS

- Pre- and post-scrubber monitoring
- Gas cabinet monitoring
- Break-point monitoring for resins of dry scrubber

FEATURES

- One universal unit for 30 different gases with interchangeable “Smart” Sensors.
- “Smart” Sensor Assembly Permits Self-diagnostics Function (Off-site Calibration).

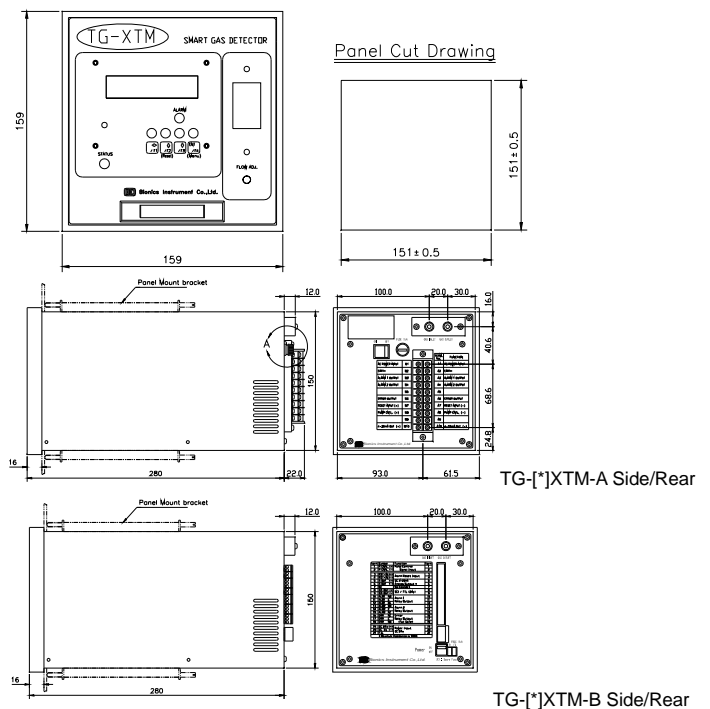
SPECIFICATIONS

Model	TG-[*]XTM-A	TG-[*]XTM-B
Detectable Gases and Range	See Detectable gases	
Principle	Electrochemical Cell	
Sampling Type	Sample draw, Continuously	
Number of Detection Points	One point	
Indicator	Characteristic LCD display	
Alarm Levels	A1: 30% of full scale (adjustable preset level) A2: 100% of full scale (adjustable preset level)	
Alarm Relay Contacts	A1: SPDT A2: SPDT Fault: SPDT (fail safe action)	
Capacity of Relay Contacts	125 V AC, 0.3 A max. 30 V DC, 1.0 A max	
Concentration Signal Output	4 ~ 20 mA DC Max. load resistance: 750 Ω	
Sample Flow Rate	Approx. 0.15 ~ 0.5 l/min.	
External Piping Size	PT 1/4, female	
Operating Conditions	0 ~ 40°C, 20 ~ 80%RH (non-condensing)	
Power Requirements	100 ~ 240 V AC, 50/60 Hz	24 V DC
Power Consumption	15 VA	10 W
Installation Style	Panel-mount	
Dimensions	159 (W) × 159 (H) × 302 (D) mm	
Weight	Approx. 5kg	

DETECTABLE GASES

System Code	Gas	Range	Remarks
TG-100XTM	Cl ₂	0 ~ 1.5 ppm	
TG-400XTM	HCl	0 ~ 15 ppm	
TG-700XTM	HF	0 ~ 9 ppm	
TG-1200XTM	CO	0 ~ 100 ppm	Replaceable sensor
TG-1400XTM	F ₂	0 ~ 3 ppm	Range specified by user
	CCl ₃	0 ~ 0.3 ppm	
TG-1500XTM	H ₂	0 ~ 4 %	Range specified by user
		0 ~ 4000 ppm	
TG-1700XTM	NO ₂	0 ~ 9 ppm	
TG-2400XTM	NH ₃	0 ~ 75 ppm	
TG-3200XTM	H ₂ Se	0 ~ 0.2 ppm	
TG-3400XTM	BCl ₃	0 ~ 15 ppm	Range in HCl concentration
	HBr	0 ~ 9 ppm	
TG-3700XTM	SiF ₄	0 ~ 9 ppm	Range in HF concentration
TG-4000XTM	SiH ₄	0 ~ 15 ppm	No hydrogen interference
	PH ₃	0 ~ 1 ppm	

DIMENSIONS



*We reserve the right to change specifications without notice.

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