



*Two-wire/Plug-in Sensor*

# Toxic Gas Transmitters

models TX-[ \* ]DP-A/TX-[ \* ]DP-D/TX-[ \* ]DP-N



- ✚ Plug-in Sensor for Easy Replacement and refilling Electrolyte
- ✚ Renewable Sensors for Low-cost Operation
- ✚ One-man calibration
- ✚ Low power consumption

Bionics offers simple, compact yet complete toxic gas detecting systems with the TX-(\*)DP-A/DP-D/DP-N transmitter series.

The Bionics toxic gas sensors, to be used in combination with the TX-(\*)DP-A/DP-D/DP-N transmitters, are gas-specific, stable and available for a wide range of different gases. Since the sensors are refreshed periodically by replacing the electrolyte and membranes, the running cost is kept low compared to sensors which require frequent replacement.

Furthermore, sensor is new plug-in type which provides easy replacement after changing membrane and electrolyte.

\* 3 or 4 digits gas code number as same as sensor model number which indicate in the Measuring gas name and range on next page.

## Measuring gas name and range

Sensor model	Gas name	Range (ppm)	Sensor model	Gas name	Range (ppm)
GS-160DP	Cl <sub>2</sub>	0-1.5	GS-1551DP	H <sub>2</sub>	0-4000
GS-260DP	H <sub>2</sub> S	0-30	GS-1680DP	CH <sub>3</sub> COOH	0-30
GS-360DP	HCN	0-30	GS-1750DP	NO <sub>2</sub>	0-9
GS-480DP	HCl	0-6	GS-2460DP	NH <sub>3</sub>	0-75
GS-780DP	HF	0-9	GS-2460DP	Amine	0-75
GS-960DP	Br <sub>2</sub> , I <sub>2</sub>	0-3	GS-3480DP	Chloride	0-6
GS-1461DP	F <sub>2</sub>	0-3	GS-3780DP	Fluoride	0-9

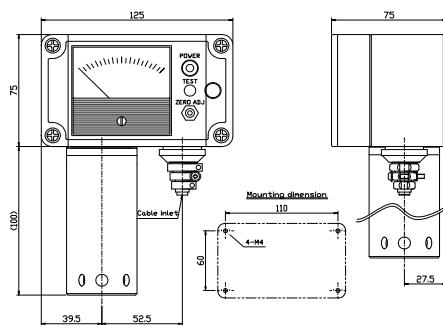


Above table indicates typical sensor model, gas name and standard range.  
When you need different gases information, feel free to contact Bionics Instrument group below.

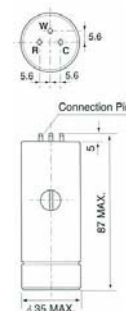
## Specifications

Transmitter model	TX-[*]DP-A	TX-[*]DP-D	TX-[*])DP-N
Detecting principle	Electrochemical		
Response	T60 < 30 sec		
Accuracy	± 30% of alarm setting amount (min. 1/4 F.S.)		
Display	Analog	Digital	Non
Sampling style	Diffusion, Continuous, Single point		
Mounting style	Wall mount		
Operating temperature	0 ~ 40°C		
Explosion proof	Non		
Power requirement	24 V DC (2 wire system)		
Power consumption	Approx. 1 W		
Dimension	Approx. 125(W) x 175(H) x 75(D) mm		
Weight	Approx. 1 kg		

## External view & Dimensions



Transmitter TX-[ \* ]DP-A



Sensor GS-[ \* ]DP

Unit :mm

※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](mailto:trade@bionics-japan.co.jp) URL : <http://www.bionics-japan.co.jp>

### 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](mailto:sales@bionics-europe.com) URL : <http://www.bionics-europe.com>

### PureAir 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](mailto: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](mailto:gbionics@ms56.hinet.net) URL : <http://www.bionics.com.cn>