

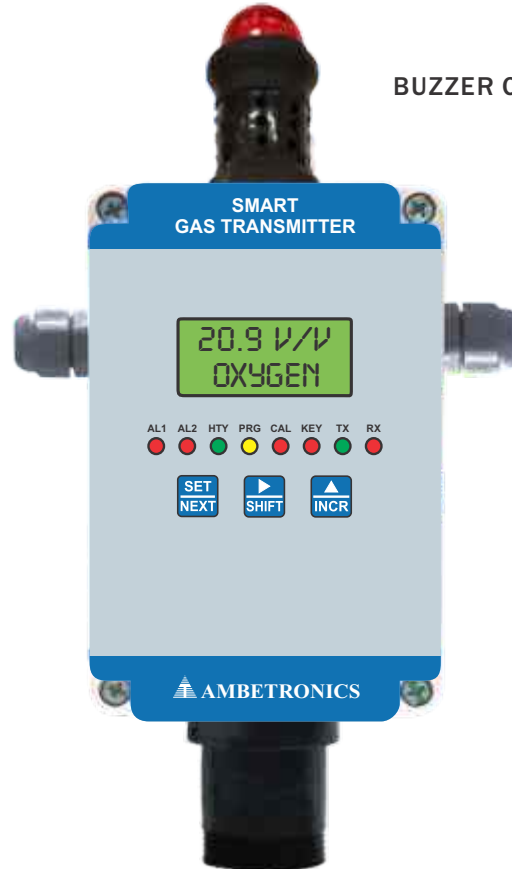
# SMART GAS TRANSMITTER GT-2511-WP



## GT-2511-WP - (Weatherproof Model)



BUZZER CUM FLASHER



### FEATURES

- Provides a fast and reliable output by using Electro Chemical / Pellister Sensor Technology.
- Optimized for detection of smallest leak of Oxygen, Toxic and Combustible Gases.
- Highly resistant to poisoning and etching.
- Capable of detecting down to PPM, %LEL & %V/V.
- Digital display of Gas Concentration on L.C.D. Display
- Standard 4-20mA signal output with configurable range
- Easy handling and programming with 3 keys for Weatherproof Models.
- Password protected programming with password changing facility
- One man Auto Software Gas Calibration
- Optional Alarm relay contacts with two configurable Alarm levels & one Relay for fail safe relay.
- Optional STEL and TWA set points can be configured for Toxic Gases
- Optional RS-485 communication port with MODBUS RTU Protocol.

### APPLICATIONS

- Gas Metering Skid
- Gas Cylinder Bank
- Oil & Gas Industries
- Gas Pipeline Project
- Refineries
- Cold Storage
- Sewage Plants
- Fertilizers Plants
- Stack Monitoring
- Chlorination Plant
- Ambient Monitoring
- Pulp & Paper Plants
- Gas Metering Station
- Burner / Furnace Areas
- Bullet Yard / Storage Yard
- Chemical Processing Plant
- Acid Alkalizes & Dyes Mfg. Plants
- Offshore Drilling & Processing Platforms
- Heat Treatment Plants
- Chemical Storage Area
- Control Atmosphere
- Power & Industrial Plants
- Coal Mine and Confined Area
- Chemical & Petrochemical Plants
- Automotive Industries / Paint Shops

**MUST FOR HUMAN AND INDUSTRIAL SAFETY**

# TECHNICAL SPECIFICATIONS

## General :

Detection Method	: Electrochemical / Catalytic Bead / Pellistor / Solid State
Gases Detected	: Oxygen / Toxic / Combustible / VOC (Please select from the table below).
Display	: 8x2 Alphanumeric L.C.D. Display with Backlit 8 LEDs to indicate status of instrument
Control Action	: i) Two independent Alarm set points with Latch & Non-latch facility. ii) User selectable Hysteresis and Logic option. iii) Configurable STEL and TWA set points for Toxic Gases (optional).
Setting	: By using 3 Keys on front panel for Weatherproof Model

## Performance :

Accuracy	: ±2% of Full Scale.
Response Time	: For response time, contact to factory
Start-up Time	: Less than 30 Seconds.

## Electrical :

Supply Voltage	: 18 to 36 VDC, Typically 24VDC
Power Consumption	: Less than 3.6 Watts.
Supply Current	: 150mA at 24VDC
Cable	: 3 Wires (1.5mm <sup>2</sup> ) Flexible or Armoured Shielded Cable

## Environmental :

Operating Temperature	: -15°C to +55°C
Storage Temperature	: -20°C to +60°C
Humidity	: Less than 95% Non-Condensing.

## Output Signal :

Standard	: 4-20mA Current Output with configurable range selection.
Optional	: Three SPDT Relays (one for FailSafe and Two for Alarm indication) of rating '2A/120VAC, 2A/24VDC'.
Optional	: RS-485 Communication port with MODBUS RTU protocol.

## Error Monitoring :

- i) During Sensor Break/Open, the Display shows 'SENSOR OPEN' & 4-20mA output goes down to 3.7mA for Combustible gases only.
- ii) During Over range, the Display shows 'OVER RANGE' & 4-20mA output goes up to 21mA.

## Accessories (Optional) :

- CE certified 24 VDC Power supply.
- Canopy & Mounting stand.
- Gas Calibration Kit (0.5,1, 3,10)Liter.
- Hooter Cum Flasher.
- Remote Control for programming.
- Gas Sampling & Conditioning System.
- RS-485 to USB OR RS-232 convertor
- PC Based SCADA Software, Modem

## Weatherproof Housing :

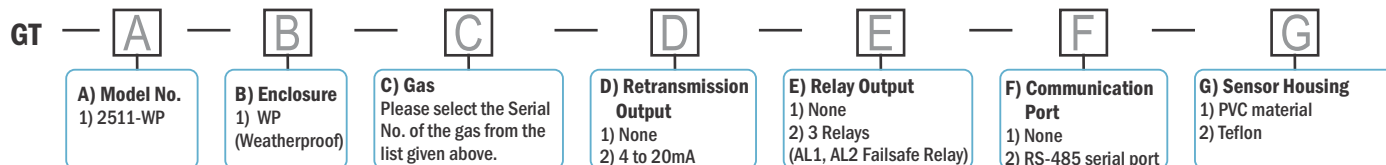
Protection Class	: IP-65
Cabinet Material	: Polycarbonate, grey colour
Cable Entry	: Thermoplastic cable gland (IP 68)
Dimension	: 170mm(H) x 100mm(W) x 60 mm(D) (with 1 Gland) : 170mm(H) x 120mm(W) x 60 mm (D) (with 2 Glands)
Mounting	: Wall Mounting / Stand Mounting / Pipe Mounting
Weight	: Approx 500 Grams

## LIST OF GAS TRANSMITTERS WITH RANGES & RESOLUTION

S.N.	GASES	RANGE	UNIT	RES.	S. N.	GASES	RANGE	UNIT	RES.	S. N.	GASES	RANGE	UNIT	RES.
O1	Oxygen (O <sub>2</sub> )	25	%Vol.	0.1	T13	Hydrazine (N2H4)	1	PPM	0.01	<b>COMBUSTIBLE GASES</b> C12 Acetone (CH <sub>3</sub> ) <sub>2</sub> CO 100 %LEL 1 C13 Ethanol (C <sub>2</sub> H <sub>5</sub> OH) 100 %LEL 1 C14 Ethyl Acetate (CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub> ) 100 %LEL 1 C15 Ethylene (C <sub>2</sub> H <sub>4</sub> ) 100 %LEL 1 C16 Hydrogen (H <sub>2</sub> ) 100 %LEL 1 C17 Isopropanol (CH <sub>3</sub> C <sub>2</sub> H <sub>4</sub> OH) 100 %LEL 1 C18 Methanol (CH <sub>3</sub> OH) 100 %LEL 1 C19 Methyl ethyl ketone (CH <sub>3</sub> -CO-C <sub>2</sub> H <sub>5</sub> ) 100 %LEL 1 C20 N-heptane (C <sub>7</sub> H <sub>16</sub> ) 100 %LEL 1 C21 N-pentane (C <sub>5</sub> H <sub>12</sub> ) 100 %LEL 1 C22 N-octane (C <sub>8</sub> H <sub>18</sub> ) 100 %LEL 1 C23 Toluene (C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> ) 100 %LEL 1 C24 Ammonia (NH <sub>3</sub> ) 100 %LEL 1 C25 Carbon Monoxide (CO) 100 %LEL 1 C26 Unleaded Petrol 100 %LEL 1				
O2	Oxygen (O <sub>2</sub> )	100	%Vol.	0.1	T14	Bromine (Br <sub>2</sub> )	20	PPM	0.01					
<b>TOXIC GASES</b>					T15	Hydrogen Fluoride (HF)	10	PPM	0.01					
T1	Carbon Monoxide (CO)	1000	PPM	1	T16	Phosgene/Cobalt (II) Chloride (COCL <sub>2</sub> )	1	PPM	0.01					
T2	Sulphur Dioxide (SO <sub>2</sub> )	50	PPM	0.1	<b>COMBUSTIBLE GASES</b>									
T3	Hydrogen Sulfide (H <sub>2</sub> S)	100	PPM	1	C1	Methane (CH <sub>4</sub> )	100	%LEL	1					
T5	Ammonia (NH <sub>3</sub> )	100	PPM	1	C2	Butane/n-Butane(C <sub>4</sub> H <sub>10</sub> )	100	%LEL	1					
T6	Hydrogen (H <sub>2</sub> )	1000	PPM	1	C3	Propane/n-Propane (C <sub>3</sub> H <sub>8</sub> )	100	%LEL	1					
T7	Chlorine (CL <sub>2</sub> )	20	PPM	0.01	C4	Acetylene (C <sub>2</sub> H <sub>2</sub> )	100	%LEL	1					
T8	Hydrogen Chloride (HCL)/ Hydrogen Bromide (HBR)	200	PPM	1	C5	Hexane/n-Hexane (C <sub>6</sub> H <sub>14</sub> )	100	%LEL	1					
T9	Nitrogen Dioxide (NO <sub>2</sub> )	20	PPM	0.01	C6	CNG	100	%LEL	1					
T10	Hydrogen Cyanide (HCN)	100	PPM	1	C7	LNG	100	%LEL	1					
T11	Ozone (O <sub>3</sub> )	5	PPM	0.01	C8	LPG	100	%LEL	1					
T12	Phosphine (Ph <sub>3</sub> )	10	PPM	0.01	C9	Natural Gas	100	%LEL	1					
					C10	Pentane/n-Pentane (C <sub>5</sub> H <sub>12</sub> )	100	%LEL	1					
					C11	Flammable (Explosive) Gas	100	%LEL	1					

\*Please specify if any other gases & Gas range you require which is not in the list (Available on Request)

## ORDERING INFORMATION



\* Before placing order please refer the above ordering information or contact below address for assistance.

Manufactured by :

## AMBETRONICS ENGINEERS PVT. LTD.

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Version GT-2511-WP-R1-15022021