

**GT-1033-FLP-PDA**

Actual image and size may slightly differ

## FEATURES

- Industrial Standard, 4-20mA output with Respect to Gas Concentration.
- Loop Test, Assures Proper Operation of the Transmitter without Calibration Gas
- Easy Programming with Password Protection.
- Fast Response, Easy to Read Display.
- Easy to Replace Sensor Module; On Field Plug-N-Play module.
- Reverse Polarity Protection.
- No Additional Power Required.
- Highly Reliable, Fast, Accurate for Specific Gas Detection.
- Excellent Long Term Stability.
- User Friendly, Simple to Operate & Easy to Install.
- Reduced Operating, Maintenance and Installation Cost, One Man Calibration.
- Sensor Open/ Over Range Indication.
- Inhibit mode for service purpose, current output settable as per the requirement.
- EMC compliance to IEC – 61000-4 standards.

## 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
- Gas Metering Station
- Burner / Furnace Areas
- Chemical Processing Plant
- Acid Alkalize & Dyes mfg. Plants
- Offshore Drilling & Processing Platform
- Heat Treatment Plants
- Chemical Storage Area
- Control Atmosphere
- Power & Industrial Plants
- Coal Mine and Confined Area
- Chemical & Petrochemical Plants
- Automotive Industrial/Paints Shops
- Pulp & Paper Plants
- Bullets Yards / Storage Yard

# TECHNICAL SPECIFICATIONS

## General

Sensors	: Electrochemical Sensor/NDIR
Range/Resolution	: As specified in the Table
Detection Method	: Diffusion
Response Time	: Less than 10sec.
Display	: 2 Line, 4-Digit Segmental LCD Display.
Set Point	: Two independent set point, with alarm symbol for indication purpose.(There is no relay output)
Setting	: By using Magnetic Wand for Flameproof Model.

## Accuracy

Toxic/O <sub>2</sub>	: ±2% of the full Scale Range.
NDIR CH <sub>4</sub>	: ±0.2% V/V or ± 5% of Applied Gas.

## Electrical

Power Supply	: Load Driving capacity as follows: a)820 Ω at 24VDC to 36VDC b)680 Ω at 22VDC to 36VDC c)560 Ω at 20VDC to 36VDC d)47 Ω at 8VDC to 36VDC
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## Output Signal

Standard	: 4-20 mA Loop current output with configurable range
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## Error monitoring

- During Sensor break/ open the display shows 'OPEN' & loop current will be Upscale/ Downscale.
- During Over Range the display shows 'OVER' & loop current will be Upscale/ Downscale.
- Upscale current = 21mA
- Downscale current = 3.7mA
- Inhibit mode current adjustable 3.8mA/ 4mA (for Toxic/NDIR) & 3.8mA/ 17.4mA (for Oxygen), user programmable.

## Environmental

Operating Temp.	: -15 to +55°C
Storage Temp.	: -10 to +60°C

## Optional Accessories

- CE certified 24 VDC power supply
- Gas sampling & conditioning system
- Canopy & Mounting stand

## Flameproof Housing

Protection class	: IP-66
Cabinet material	: Cast aluminium alloy, LM-6
Cable entry	: Double compression cable gland EX-proof M20 X 1.5 (P) & M25 X 1.5(P)
Dimension	: 215mm(H) with sensor holder × 225mm(W) with stopper plug & Cable gland × 125 mm(D)
Mounting	: Wall Mounting/ Stand Mounting /Pipe Mounting
Weight	: Approximately 2.55 kg

## ELECTROCHEMICAL SENSOR TECHNOLOGY

SR. NO	GASES	RANGE	UNIT	RES.
O1	Oxygen (O <sub>2</sub> )	25	% Vol.	0.01
NT1	Nitrogen (N <sub>2</sub> )	75 TO 100	% Vol.	0.1

## TOXIC GASES

T1	Ammonia (NH <sub>3</sub> )	100	PPM	1
T2	Ammonia (NH <sub>3</sub> )	1000	PPM	1
T3	Bromine (Br <sub>2</sub> )	10	PPM	0.01
T4	Carbon Monoxide (CO)	1000	PPM	1
T5	Carbon Monoxide (CO)	2000	PPM	1
T6	Chlorine (CL <sub>2</sub> )	10	PPM	0.01
T7	Ethylene Oxide(ETO)	100	PPM	1
T8	Hydrogen (H <sub>2</sub> )	2000	PPM	1
T9	Hydrogen Bromide (HBr)	100	PPM	1
T10	Hydrogen Chloride (HCL)	100	PPM	1
T11	Hydrogen Cyanide(HCN)	100	PPM	1
T12	Hydrogen Fluoride (HF)	10	PPM	0.01
T13	Hydrogen Fluoride (HF)	100	PPM	1
T14	Hydrogen Sulfide (H <sub>2</sub> S)	100	PPM	1
T15	Ozone (O <sub>3</sub> )	20	PPM	0.01
T16	Phosphine (PH <sub>3</sub> )	10	PPM	0.01
T17	Nitrogen Dioxide (NO <sub>2</sub> )	20	PPM	0.01
T18	Nitric Oxide(NO)	250	PPM	1
T19	Sulfur Dioxide (SO <sub>2</sub> )	50	PPM	0.1
T20	Sulfur Dioxide (SO <sub>2</sub> )	2000	PPM	1

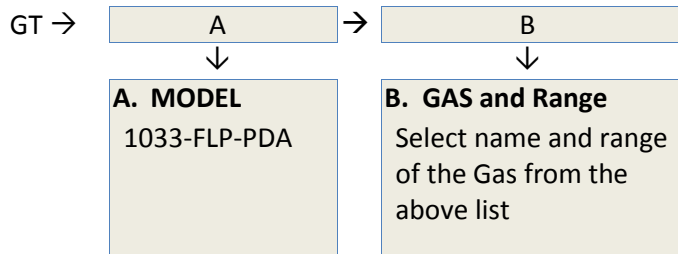
## NDIR SENSOR TECHNOLOGY

N4	Methane (CH <sub>4</sub> )	100	%LEL	1
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## NOTE:

- In above Table, Range of gases start from zero.
- Gases which are not listed, are available on request & for other details contact factory.

## ORDERING INFORMATION



NOTE: Select order code e.g. GT-1033-FLP-PDA -T8 i.e. GT-1033 –Flameproof Enclosure – Hydrogen 2000 PPM

Manufactured by :

 **AMBETRONICS ENGINEERS PVT. LTD.**

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Dealers:

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