

SMART GAS TRANSMITTER

OXYGEN / TOXIC / COMBUSTIBLE GASES



GT - 2500 - FLP - LED



GT - 2500 - WP - LED

*First Time In India With
Autoscaling Feature*

GT 2500 is Capable of Measuring
upto 0-100% V/V of Combustible Gases

GT 2500 is Capable of Measuring
upto 0-100% LEL of Combustible Gases

GT 2500 is Capable of Measuring upto 0-9999 PPM
& 0-9999 PPB of Toxic Gases

Features

- Flame proof housing for explosive environment.
- Digital display of gas concentration on seven segment display.
- Password protected function menu.
- Standard 4-20 mA output with fault indication current output.
- Low, High configurable Alarms with Visual alerts.
- Optional alarm relay contacts.
- One man auto software gas calibration.
- Gas concentration can be displayed in %V/V, %LEL, PPM or PPB.
- Easy handling & programming with 3 keys.
- It can be programmed from line of site upto 10 meters using IR remote control.
- For flameproof enclosures programming is possible using magnetic pen.
- MODBUS RS 485 serial port available for digital communication

Applications

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

MUST FOR HUMAN AND INDUSTRIAL SAFETY

TECHNICAL SPECIFICATIONS

Input	Oxygen / Toxic / Combustible Gases, Please select from the table below.	
Range/ Resolution	As specified in the table below.	
Accuracy	± 1% of the full scale value	
Sensor type	Electrochemical / Catalytic Pellister expected life 24 months	
Standard output	Programmable Linear 4-20 O/P with respect to Gas concentration range, optional RS - 485 Modbus output	
Dual Display	Upper :- 4 Digit of 8mm(H) Red LED display for 'Gas Concentration' indication Lower :- 4 Digit of 8mm(H) Red LED display for 'Set Point Value' of Alarm Relay-1/ Unit of Gas	
LED Indication	RL1 & RL2 for Relay1 and Relay 2 respectively, HTY for Healthy Check, PRG for Programming mode, & CAL for calibration mode, KEY for sensing key press, TX & RX for RS 485 Communication.	
Setting	Setting by 3 keys on front panel i.e. 'SET / NEXT', 'SHIFT' & 'INCREMENT' keys.	
Monitoring	i) By display: Over range shows 'OVER RANGE'. ii) By Standard O/P current: Over range: 21mA, Startup menu and Operation, modes: 3.8mA and Normal working mode:4-20mA.	
Supply Voltage	Certified 18VDC to 36VDC power supply, 100 mA at 24 VDC.	
Cable	☐☐1.5 sq. mm 3 Core, Flexible OR Armoured shielded cable	
Operating Temperature	0 to 500C ± 5%	
Relative Humidity	Below 95% non condensing	
Sensor Housing	P.V.C. / TEFLON material /SS316, Please select while ordering	
Enclosure Details	GT - 2500 - WP (Weatherproof)	GT - 2500 - FLP (Flameproof)
Protection Class	IP-65	IP-65 for Gas Gr. IIA & IIB, ATEX, CCOE, CMRI approved
Cabinet Material	Polycarbonate, gray colour	Cast Aluminium alloy, LM-6 / C.I. Enclosure
Cable Entry	1 No, Thermoplastic cable gland (IP 68)	Double compression cable gland (Ex-Proof), ¾" ET-type
Dimension	190 (H) x 80 (W) x 55 (D) in mm	180 (H) x 205 (W) x 110 (D) in mm
Mounting	Wall Mounting / Stand Mounting / Pipe Mounting	Wall Mounting / Stand Mounting / Pipe Mounting
Weight	Approx 350 Grams	Approx 2.0 Kg
Optional	Flame Proof or Non Flame Proof Industrial Hooter, Hooter cum Flasher, Chart recorder, Cables,24 VDC power supply, Gas calibration kit, Canopy mounting stand, RS-485 MODBUS, SCADA Software & IR Remote control.	

LIST OF GAS TRANSMITTERS WITH RANGES & RESOLUTION

SR. NO	GASES	RANGE	UNIT	RES.	SR. NO	GASES	RANGE	UNIT	RES.	SR. NO	GASES	RANGE	UNIT	RES.
O1	Oxygen (O ₂)	0-25	%Vol.	0.1	C1	COMBUSTIBLE GASES	0-100	%LEL	0.1	C21	Cyclopropane (C ₃ H ₆)	0-100	%LEL	0.1
O2	Oxygen (O ₂)	0-100	%Vol.	0.1	C2	Acetaldehyde (CH ₃ CHO)	0-100	%LEL	0.1	C22	n-Decane (C ₁₀ H ₂₂)	0-100	%LEL	0.1
TOXIC GASES					C3	Acetone ((CH ₃) ₂ CO)	0-100	%LEL	0.1	C23	Ethane (C ₂ H ₆)	0-100	%LEL	0.1
T1	Nitrogen Dioxide(NO ₂)	0-20	PPM	1	C4	n-Butane (C ₄ H ₁₀)	0-100	%LEL	0.1	C24	Ethanol (C ₂ H ₅ OH)	0-100	%LEL	0.1
T2	Nitric Oxide (NO)	0-250	PPM	1	C5	Hydrogen (H ₂)	0-100	%LEL	0.1	C25	Ethene (C ₂ H ₄)	0-100	%LEL	0.1
T3	Sulphur Dioxide (SO ₂)	0-50	PPM	1	C6	Methane (CH ₄)	0-100	%LEL	0.1	C26	Ethyl acetate (C ₄ H ₈ O ₂)	0-100	%LEL	0.1
T4	Sulphur Dioxide (SO ₂)	0-2000	PPM	1	C7	Propane (C ₃ H ₈)	0-100	%LEL	0.1	C27	Ethylamine (C ₂ H ₇ N)	0-100	%LEL	0.1
T5	Chlorine (Cl ₂)	0-20	PPM	1	C8	Ethylene (C ₂ H ₄)	0-100	%LEL	0.1	C28	Ethyl benzene (C ₈ H ₁₀)	0-100	%LEL	0.1
T6	Chlorine (Cl ₂)	0-200	PPM	1	C9	n-Hexane (C ₆ H ₁₄)	0-100	%LEL	0.1	C29	Ethyl methyl ether	0-100	%LEL	0.1
T7	Carbon Monoxide (CO)	0-2000	PPM	1	C10	n-Pentane (C ₅ H ₁₂)	0-100	%LEL	0.1	C30	Gasoline (C ₈ H ₁₈)	0-100	%LEL	0.1
T8	Carbon Dioxide (CO ₂)	0-10	%Vol.	0.1	C11	n-Heptane (C ₇ H ₁₆)	0-100	%LEL	0.1	C31	Isobutene (C ₄ H ₈)	0-100	%LEL	0.1
T9	Hydrogen Sulphide (H ₂ S)	0-100	PPM	1	C12	LPG	0-100	%LEL	0.1	C32	Methanol (CH ₃ OH)	0-100	%LEL	0.1
T10	Hydrogen Sulphide (H ₂ S)	0-200	PPM	1	C13	LNG	0-100	%LEL	0.1	C33	Methyl acetate (C ₃ H ₈ O ₂)	0-100	%LEL	0.1
T11	Hydrogen Cyanide (HCN)	0-100	PPM	1	C14	Acetylene (C ₂ H ₂)	0-100	%LEL	0.1	C34	Methyl ether (CH ₃ OCH ₃)	0-100	%LEL	0.1
T12	Hydrogen Chloride (HCL)	0-50	PPM	1	C15	Benzene (C ₆ H ₆)	0-100	%LEL	0.1	C35	Methyl Pentane (C ₆ H ₁₄)	0-100	%LEL	0.1
T13	Ammonia (NH ₃)	0-50	PPM	1	C16	n-Butanol (C ₄ H ₁₀ O)	0-100	%LEL	0.1	C36	n-Nonane (C ₉ H ₂₀)	0-100	%LEL	0.1
T14	Ammonia (NH ₃)	0-100	PPM	1	C17	i-Butanol (C ₄ H ₁₀ O)	0-100	%LEL	0.1	C37	Octane (C ₈ H ₁₈)	0-100	%LEL	0.1
T15	Ozone (O ₃)	0-2	PPM	1	C18	t-Butanol (C ₄ H ₁₀ O)	0-100	%LEL	0.1	C38	i-Pentane (C ₅ H ₁₂)	0-100	%LEL	0.1
T16	Ethylene Oxide (C ₂ H ₄ O)	0-20	PPM	1	C19	i-Butene (C ₄ H ₈)	0-100	%LEL	0.1	C39	1-Pentene (C ₅ H ₁₀)	0-100	%LEL	0.1
T17	Phosphine (PH ₃)	0-9999	PPB	1	C20	Propene (C ₃ H ₆)	0-100	%LEL	0.1	C40	n-Propanol (C ₃ H ₈ O)	0-100	%LEL	0.1
T18	Phosgene (COCl ₂)	0-1000	PPB	1		Cyclohexane (C ₆ H ₁₂ O)	0-100	%LEL	0.1	C41	Ethyl ether (C ₂ H ₅ OC ₂ H ₅)	0-100	%LEL	0.1

ORDERING INFORMATION

GT	A	B	C	D	E	F	G	H	I
A) Model No. 1) GT - 2500	B) Enclosure 1) FLP (Flameproof) 2) WP (Weatherproof)	C) Input Please select the Serial No of the gas from the list given above.	D) Relay Output 1) None 2) 1 Relay 3) 2 Relays 4) 3 Relays	E) Retransmission Output 1) None 2) 4 to 20mA	F) Communication Port 1) None 2) RS-485 Serial Port	G) Programming Interface 1) None 2) IR Remote Control	H) Sensor Housing 1) PVC material 2) Stainless Steel (SS316) 3) Teflon	I) Power Supply 1) 24VDC (Optional)	

*** Before placing order please Refer the above ordering information or Contact us for assistance.**

*** Please specify if any other gases not in the list (Available on Request)**

Ambetronics Engineers Pvt. Ltd.

17-B, Tarun Industrial Estate, Mogra Pada, New Nagardas Road,

Andheri (East), Mumbai - 400069, India. • Mob : 09324154646

Tel.: +91-22-66995525, 28371143, Fax: +91-22-28226570

E-mail: gas@ambetronics.com • Web: www.ambetronics.com

DEALERS :