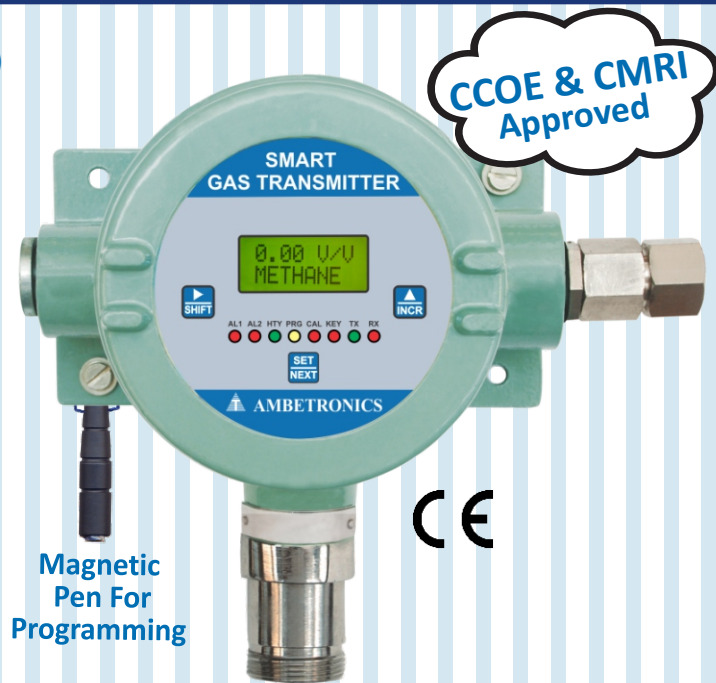


SMART GAS TRANSMITTER FOR OXYGEN / TOXIC / COMBUSTIBLE GASES

MODEL NO.: GT-2511 (LCD DISPLAY)



Weatherproof



Magnetic Pen For Programming

Flameproof

Features

- Provides a fast and reliable output by using Electro Chemical / Pellister / Solid State 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 LCD Display
- Standard 4-20mA signal output with configurable range.
- Easy handling and programming with 3 keys for Weatherproof Models.
- Non - Intrusive programming for Flameproof model using Magnetic pen.
- 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.

Approval & Compliance

- ◆ Approval & Compliance for Flameproof :
Certified to Ex-d IIA, IIB, T6, IP66 Compliance with :
• IS/IEC 60079-0 : 2004 • IS/IEC 60079-1: 2007 • IS/IEC 60529 : 2001
- ◆ CE Mark :
Conforms with essential requirement of :
• Electromagnetic Compatibility Directive 2004/108/EC, EN 50270:2006
• Low voltage Directive 2006/95/EC
- ◆ Compliance with the IEC 60945 Standard for Marine application

Applications

- | | |
|--|--|
| <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 |
|--|--|

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 LCD 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 Magnetic pen for Flameproof model

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

Performance :

Accuracy : ±2% of Full Scale.

Response Time : T20 < 18 Seconds
T50 < 22 Seconds
T90 < 40 Seconds

Start-up Time : Less than 30 Seconds.

Environmental :

Operating Temperature : -15°C to +55°C

Storage Temperature : -10 to +60°C

Humidity : Less than 95% Non-Condensing.

Accessories (Optional) :

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

Electrical :

Supply Voltage : 18 to 36 VDC, Typically 24VDC

Power Consumption: Less than 3.6 Watts.

Cable : 3 Wires (1.5 mm²) Flexible or Armoured Shielded Cable

Flameproof Housing :

Protection Class : IP-66 for Gas Gr. IIA, IIB & IIC, CMRI (CIMFR) approved Enclosure, CCOE (Optional).

Cabinet Material : Cast Aluminium alloy, LM-6

Cable Entry : Double compression cable gland (Ex-Proof), 3/4" ET-type

Dimension : 175mm(H) x 205mm(W) x 120 mm (D) - (1 Glands)
175mm(H) x 250 mm(W) x 120 mm (D) - (2 Glands)

Mounting : Wall Mounting / Stand Mounting / Pipe Mounting

Weight : Approx 2.0 Kg

Weatherproof Housing :

Protection Class : IP-65

Cabinet Material : Polycarbonate, grey colour

Cable Entry : Thermoplastic cable gland (IP 68)

Dimension : 155mm (H) x 100 mm (W) x 55 mm (D) - (1 Glands)
155mm (H) x 120 mm (W) x 55 mm (D) - (2 Glands)

Mounting : Wall Mounting / Stand Mounting / Pipe Mounting

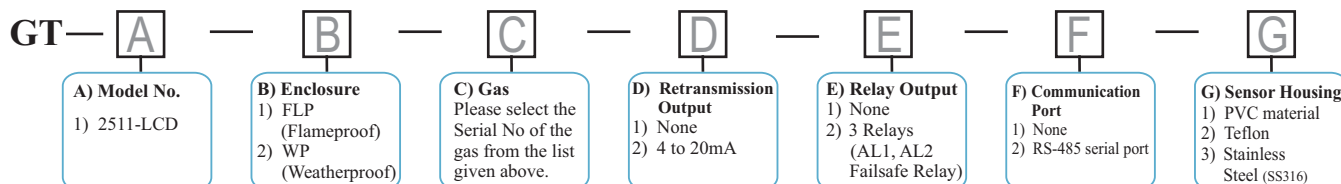
Weight : Approx 500 Grams

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 ₂)	0-25	%Vol.	0.1	COMBUSTIBLE GASES					C21	Cyclopropane (C ₃ H ₆)	0-100	%LEL	0.1
O2	Oxygen (O ₂)	0-100	%Vol.	0.1	C1	Acetaldehyde (CH ₃ CHO)	0-100	%LEL	0.1	C22	n-Decane (C ₁₀ H ₂₂)	0-100	%LEL	0.1
TOXIC GASES					C2	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	C3	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	C4	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	C5	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	C6	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	C7	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	C8	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	C9	n-Pentane (C ₅ H ₁₂)	0-100	%LEL	0.1	C30	Gasoline (C ₈ H ₁₈)	0-100	%LEL	0.1
T8	Hydrogen Sulphide (H ₂ S)	0-100	PPM	1	C10	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)	0-200	PPM	1	C11	LPG	0-100	%LEL	0.1	C32	Methanol (CH ₃ OH)	0-100	%LEL	0.1
T10	Hydrogen Cynide (HCN)	0-100	PPM	1	C12	LNG	0-100	%LEL	0.1	C33	Methyl acetate (C ₃ H ₆ O ₂)	0-100	%LEL	0.1
T11	Hydrogen Chloride (HCL)	0-50	PPM	1	C13	Acetylene (C ₂ H ₂)	0-100	%LEL	0.1	C34	Methyl ether (CH ₃ OCH ₃)	0-100	%LEL	0.1
T12	Ammonia (NH ₃)	0-50	PPM	1	C14	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)	0-100	PPM	1	C15	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	Ozone (O ₃)	0-2	PPM	1	C16	i-Butanol (C ₄ H ₁₀ O)	0-100	%LEL	0.1	C37	Octane (C ₈ H ₁₈)	0-100	%LEL	0.1
T15	Ethylene Oxide (C ₂ H ₄ O)	0-20	PPM	1	C17	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	Phosphine (PH ₃)	0-9999	PPB	1	C18	i-Butene (C ₄ H ₈)	0-100	%LEL	0.1	C39	1-Pentene (C ₅ H ₁₀)	0-100	%LEL	0.1
T17	Phosgene (COCl ₂)	0-1000	PPB	1	C19	Propene (C ₃ H ₆)	0-100	%LEL	0.1	C40	n-Propanol (C ₃ H ₈ O)	0-100	%LEL	0.1
T18	TVOC	0-1000	PPM	1	C20	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

* Please specify if any other gases 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.

17-B, Tarun Industrial Estate, Mogra Pada, New Nagardas Road, Andheri (E.) Mumbai - 69, India.
Mob.: 9320619646 • 9320621646 • Tel.: +91-22-61673000, 28371143 • Fax : +91-22-28226570
E-mail : project@ambetronics.com • gas@ambetronics.com • Web : www.ambetronics.com



Dealers: