

SMART GAS TRANSMITTER FOR TOXIC / COMBUSTIBLE GASES

Special Features :

- It uses NDIR sensor preventing it from poisoning.
- 4-20 mA & digital MODBUS output.
- Direct digital readout on backlit LCD.
- User friendly setup, push buttons & LCD menu
- Can be programmed using Remote Control from 10 meters in line of site distance
- Non-intrusive calibration via Magnetic Pen.
- Configuration settings are password protected with password changing facility
- By using Electro Chemical / Pellister / NDIR Sensor Technology it provides a fast reliable output.
- Available for Combustible, Oxygen & Toxic Gases.
- The detector units are made of 316L stainless steel, and are rugged and resistant to corrosion.
- It is sealed against dust and splash water.
- Uses reliable long life sensors.



Application :

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

Performance Specifications:

Performance

Accuracy	: $\pm 1\%$ of Full Scale.
Range	: As per table
Output	: 4-20mA with range selection possibility.
Optional communication	: RS-485 Communication port with MODBUS RTU protocol.
Optional Relay	: 3 SPDT programmable relay.
Relay Rating	: 120VAC/2A, 24VDC/12A.
Supply Voltage	: 18 to 36 VDC. Recommended 24VDC
Operating Temp.	: -20°C to +55°C; Non - Condensing
Enclosure	: Die cast Aluminium, Alloy, CMRF Certified enclosure.
Protection Class	: IP-67
Cable Entry	: Double compression cable gland. Ex-Proof type.

SMART GAS TRANSMITTER FOR TOXIC / COMBUSTIBLE GASES

List of Gas Transmitters With Ranges And Resolutions:

GAS NO.	GASES	RANGE	UNIT	RES.
01	Oxygen (O ₂)	0-25	%Vol.	0.1
02	Oxygen (O ₂)	0-100	%Vol.	0.1
	TOXIC GASES			
T1	Nitrogen Dioxide(NO ₂)	0.20	PPM	1
T2	Nitric Oxide NO)	0-250	PPM	1
T3	Sulphur Dioxide (SO ₂)	0.50	PPM	1
T4	Sulphur Dioxide (SO ₂)	0-2000	PPM	1
T5	Chlorine (Cl ₂)	0-20	PPM	1
T6	Chlorine (Cl ₂)	0-200	PPM	1
T7	Carbon Monoxide (CO)	0-2000	PPM	1
T8	Carbon Dioxide (CO ₂)	0-10	%Vol.	0.1
T9	Hydrogen Sulphide (H ₂ S)	0-100	PPM	1
T10	Hydrogen Sulphide (H.S)	0-200	PPM	1
T11	Hydrogen Cynide (HCN)	0-100	PPM	1
T12	Hydrogen Chloride (HCl)	0-50	PPM	1
T13	Ammonia (NH ₃)	0.50	PPM	1
T14	Ammonia (NH ₃)	0-100	PPM	1
T15	Ozone (O ₂)	0-2	PPM	1
T16	Ethylene Oxide (C ₂ H ₄ O)	0-20	PPM	1
T17	Phosphide (PH ₃)	0.9999	PPB	1
T18	Phosgene (COCl ₂)	0-1000	PPB	1
T19	Phosgene (COCl ₂)	0-1	PPM	0.1
	COMBUSTIBLE GASES			
C1	Acetaldehyde	0-100	%LEL	0.1
C2	Acetone ((CH ₃) ₂ CO)	0-100	%LEL	0.1
C3	n-Butane (C ₄ H ₁₀)	0-100	%LEL	0.1
C4	Hydrogen (H ₂)	0-100	%LEL	0.1
C5	Methane (CH ₄)	0-100	%LEL	0.1
C6	Propane (C ₃ H ₈)	0-100	%LEL	0.1
C7	Ethylene(C ₂ H ₄)	0-100	%LEL	0.1
C8	n-Hexane (C ₆ H ₁₄)	0-100	%LEL	0.1
C9	n-Pentane (C ₅ H ₁₂)	0-100	%LEL	0.1
C10	n-Heptane (C ₇ H ₁₆)	0-100	%LEL	0.1
C11	LPG	0-100	%LEL	0.1
C12	LNG	0-100	%LEL	0.1
C13	Acetylene (C ₂ H ₂)	0-100	%LEL	0.1
C14	Benzene (C ₆ H ₆)	0-100	%LEL	0.1
C15	n-Butarol (C ₄ H ₁₀ O)	0-100	%LEL	0.1
C16	i-Butanol (C ₄ H ₁₀ O)	0-100	%LEL	0.1
C17	t-Butanol (C ₄ H ₁₀ O)	0-100	%LEL	0.1
C18	l-Butane (C ₄ H ₈)	0-100	%LEL	0.1
C19	Propene (C ₃ H ₆)	0-100	%LEL	0.1
C20	Cyclohexane (C ₆ H ₁₂ O)	0-100	%LEL	0.1

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LIST OF GAS TRANSMITTERS WITH RANGES & RESOLUTIONS

SR. NO.	GASES	RANGE	UNIT	RES.
COMBUSTIBLE GASES				
C1	Acetaldehyde	0-100	%LEL	0.1
C2	Acetone ((CH ₃) ₂ CO)	0-100	%LEL	0.1
C3	n-Butane (C ₄ H ₁₀)	0-100	%LEL	0.1
C4	Hydrogen (H ₂)	0-100	%LEL	0.1
C5	Methane (CH ₄)	0-100	%LEL	0.1
C6	Propane (C ₃ H ₈)	0-100	%LEL	0.1
C7	Ethylene(C ₂ H ₄)	0-100	%LEL	0.1
C8	n-Hexane (C ₆ H ₁₄)	0-100	%LEL	0.1
C9	n-Pentane (C ₅ H ₁₂)	0-100	%LEL	0.1
C10	n-Heptane (C ₇ H ₁₆)	0-100	%LEL	0.1
C11	LPG	0-100	%LEL	0.1
C12	LNG	0-100	%LEL	0.1
C13	Acetylene (C ₂ H ₂)	0-100	%LEL	0.1
C14	Benzene (C ₆ H ₆)	0-100	%LEL	0.1
C15	n-Butanol (C ₄ H ₁₀ O)	0-100	%LEL	0.1
C16	i-Butanol (C ₄ H ₁₀ O)	0-100	%LEL	0.1
C17	t-Butanol (C ₄ H ₁₀ O)	0-100	%LEL	0.1
C18	l-Butane (C ₄ H ₈)	0-100	%LEL	0.1
C19	Propene (C ₃ H ₆)	0-100	%LEL	0.1
C20	Cyclohexane (C ₆ H ₁₂)	0-100	%LEL	0.1
C21	Cyclopropane (C ₃ H ₆)	0-100	%LEL	0.1
C22	n-Decane (C ₁₀ H ₂₂)	0-100	%LEL	0.1
C23	Ethane (C ₂ H ₆)	0-100	%LEL	0.1
C24	Ethanol (C ₂ H ₅ OH)	0-100	%LEL	0.1
C25	Ethene (C ₂ H ₄)	0-100	%LEL	0.1
C26	Ethyl acetate (C ₄ H ₈ O ₂)	0-100	%LEL	0.1
C27	Ethylamine (C ₂ H ₇ N)	0-100	%LEL	0.1
C28	Ethyl benzene (C ₈ H ₁₀)	0-100	%LEL	0.1
C29	Ethyl methyl ether	0-100	%LEL	0.1
C30	Gasoline (C ₈ H ₁₈)	0-100	%LEL	0.1
C31	Isobutene (C ₄ H ₈)	0-100	%LEL	0.1
C32	Methanol (CH ₃ OH)	0-100	%LEL	0.1
C33	Methyl acetate (C ₃ H ₆ O ₂)	0-100	%LEL	0.1
C34	Methyl ether (CH ₃ OCH ₃)	0-100	%LEL	0.1
C35	Methyl Pentane (C ₆ H ₁₄)	0-100	%LEL	0.1
C36	n-Nonane (C ₉ H ₂₀)	0-100	%LEL	0.1
C37	Octane (C ₈ H ₁₈)	0-100	%LEL	0.1
C38	i-Pentane (C ₅ H ₁₂)	0-100	%LEL	0.1
C39	1-Pentene (C ₅ H ₁₀)	0-100	%LEL	0.1
C40	n-Propanol(C ₃ H ₈ O)	0-100	%LEL	0.1
C41	Ethyl ether (C ₂ H ₅ OC ₂ H ₅)	0-100	%LEL	0.1

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LIST OF GAS TRANSMITTERS WITH RANGES & RESOLUTIONS

SR. NO.	GASES	RANGE	UNIT	RES.
	VOC			
V1	Arsine (AsH ₃)	1	PPM	
V2	Hydrogen Floride (HF)	0-10	PPM	
V3	Silane (SiH ₄)	0-50	PPM	
V4	Methyl Chloride(CH ₃ Cl)	0-500	PPM	
V5	Methylene Chloride (CH ₃ Cl ₂)	0-500	PPM	
V6	Freon R12	1	%Vol.	
V7	Freon R22	0-2000	PPM	
V8	Freon R123	0-2000	PPM	
V9	FX56	0-2000	PPM	
V10	Freon R134a	0-2000	PPM	
V11	Freon R11	1	%Vol.	
V12	Freon R23	1	%Vol.	
V13	Freon R143a	0-2000	PPM	
V14	Freon R404a	0-2000	PPM	
V15	Freon R507	0-2000	PPM	
V16	Freon R410a	0-1000	PPM	
V17	Freon R32	0-1000	PPM	
V18	Freon R407c	0-1000	PPM	
V19	Freon R408a	0-1000	PPM	

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HOW TO ORDER

⚙️ Basic Model:				SGT35
⚙️ Enclosure:				FLP
	FLP	Flameproof		
⚙️ Input:				C40
	Please select the Serial No. of the gas from the list given			
⚙️ Relay Output:				2
	1	None	2	3 Relays
⚙️ Retransmission Output:				1
	1	None	2	4 to 20mA
⚙️ Interface:				2
	1	RS-485 to USB	2	RS-485 to RS-232
⚙️ PS Supply:				2
	1	None	2	Unilog Scada
⚙️ Programming Interface:				2
	1	None	2	IR Remote Control (Optional)
⚙️ Sensor Housing:				3
	1	PVC Material	2	Teflon
			3	Stainless Steel (SS316)

Ordering Example : SGT35-FLP-C40-2-1-2-2-2-3



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