

SINGLE GAS TRANSMITTER

MODEL NO : SME-GT-1

Singel Gas Transmitter



SME-GT-1

DISCRIPTION

Soar Mlich Engineers Field proven gas Transmitters continuously monitors for dangerous concentrations of gases. The linearize 4-20 mA transmission can interface directly with any receiving instrument starting from indicators, controllers to large control systems. Provision for directly connection of buzzer/Hooter for Alarm through Relay.

The standard system consist of a compact electronic module housed in a Weatherproof or explosion proof Metallic or Polyester box with an application specific sensor.

This state of the art transmitter is carefully designed with and manufactured with Industrial grade Components for reliability accuracy and long life.

It is certified for use in hazardous areas Class 1, Division 1, Group B, C & D. ATEX & IECEx (IIA, IIB or IIC) apart from being available in weatherproof Enclosure Transmitters are equipped with micro controller and are heavily featured with self diagnostics, Auto calibration (in case of toxic, O₂, combustible gases only) through embedded Software, can be done at site. RS 232/485 output with baud rates of 2400 bps is available as an options.

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 ₈)	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	Ethyelne (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)

SPECIFICATION

Detection Principle

Application Based Electrochemical , Semiconductor or PID

Response Time

< 5 seconds

Zero drift

0.2% FS

Accuracy

2% FS

Operating Voltage

22-30 Volt DC or 230VAC

Operating Temperature

0-50 C

Terminations

PCB mounted terminal blocks to accept 1.5mm wires

Display

Inbuilt 0.5" LCD/LED

Output

4 - 20 mA Linear, Relay, RS232/RS485

2wire/3wire

Power Consumption

2 wire: 0.5 W max. / 3 wire: 3.6 W max.

Max. Load

600 Ohms

Mounting

2" Pipe (U clamps will be provided)

Approval

ATEX & IECEx, IIA, IIB & IIC