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.

(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, O, 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.

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LIST OF GAS TRANSMITTERS WITH RANGES & RESOLUTION

S.N.	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	Hydrogen Sulphide (H_2S)	0-100	PPM	1
T9	Hydrogen Sulphide (H_2S)	0-200	PPM	1
T10	Hydrogen Cynide (HCN)	0-100	PPM	1
T11	Hydrogen Chloride (HCL)	0-50	PPM	1
T12	Ammonia (NH_3)	0-50	PPM	1
T13	Ammonia (NH_3)	0-100	PPM	1
T14	Ozone (O_3)	0-2	PPM	1
T15	Ethylene Oxide (C_2H_4O)	0-20	PPM	1
T16	Phosphine (PH_3)	0-9999	PPB	1
T17	Phosgene ($COCl_2$)	0-1000	PPB	1
T18	TVOC	0-1000	PPM	1

S. N.	GASES	RANGE	UNIT	RES.
COMBUSTIBLE GASES				
C1	Acetaldehyde (CH_3CHO)	0-100	%LEL	0.1
C2	Acetone ($(CH_3)_2CO$)	0-100	%LEL	0.1
C3	n-Butane (C_4H_{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_3H_8)	0-100	%LEL	0.1
C7	Ethyelne (C_2H_4)	0-100	%LEL	0.1
C8	n-Hexane (C_6H_{14})	0-100	%LEL	0.1
C9	n-Pentane (C_5H_{12})	0-100	%LEL	0.1
C10	n-Heptane (C_7H_{16})	0-100	%LEL	0.1
C11	LPG	0-100	%LEL	0.1
C12	LNG	0-100	%LEL	0.1
C13	Acetylene (C_2H_2)	0-100	%LEL	0.1
C14	Benzene (C_6H_6)	0-100	%LEL	0.1
C15	n-Butanol ($C_4H_{10}O$)	0-100	%LEL	0.1
C16	i-Butanol ($C_4H_{10}O$)	0-100	%LEL	0.1
C17	t-Butanol ($C_4H_{10}O$)	0-100	%LEL	0.1
C18	i-Butene (C_4H_8)	0-100	%LEL	0.1
C19	Propene (C_3H_6)	0-100	%LEL	0.1
C20	Cyclohexane ($C_6H_{12}O$)	0-100	%LEL	0.1

S. N.	GASES	RANGE	UNIT	RES.
C21	Cyclopropane (C_3H_8)	0-100	%LEL	0.1
C22	n-Decane ($C_{10}H_{22}$)	0-100	%LEL	0.1
C23	Ethane (C_2H_6)	0-100	%LEL	0.1
C24	Ethanol (C_2H_6OH)	0-100	%LEL	0.1
C25	Ethene (C_2H_4)	0-100	%LEL	0.1
C26	Ethyl acetate ($C_4H_8O_2$)	0-100	%LEL	0.1
C27	Ethylamine (C_2H_7N)	0-100	%LEL	0.1
C28	Ethyl benzene (C_8H_{10})	0-100	%LEL	0.1
C29	Ethyl methyl ether	0-100	%LEL	0.1
C30	Gasoline (C_8H_{18})	0-100	%LEL	0.1
C31	Isobutene (C_4H_8)	0-100	%LEL	0.1
C32	Methanol (CH_3OH)	0-100	%LEL	0.1
C33	Methyl acetate ($C_3H_6O_2$)	0-100	%LEL	0.1
C34	Methyl ether (CH_3OCH_3)	0-100	%LEL	0.1
C35	Methyl Pentane (C_6H_{14})	0-100	%LEL	0.1
C36	n-Nonane (C_9H_{20})	0-100	%LEL	0.1
C37	Octane (C_8H_{18})	0-100	%LEL	0.1
C38	i-Pentane (C_5H_{12}	0-100	%LEL	0.1
C39	1-Pentene (C_5H_{10})	0-100	%LEL	0.1
C40	n-Propanol (C_3H_8O)	0-100	%LEL	0.1
C41	Ethyl ether ($C_2H_5OC_2H_5$)	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)

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