

MULTI GAS ANALYZER - PANEL

GA-3522-PANEL



AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY

Actual image and size may slightly differ



Features

- Infrared sensor technology design & developed in India
- Digital display of Multi Gas Concentration on the graphic LCD display with backlight
- Dew Point Measurement as per requirement (Optional)
- Plug-in Sensor provides a full year of warranted protection against hazardous gases
- Calibration due indication and alert
- Gas concentration display in %V/V or %LEL mg/m³ or PPM
- Easy handling & programming with 3 keys
- Password protected function menu
- LOW & HIGH configurable alarms with LED indications.
- Software calibration totally by using front keys
- Data Logging facility with 1,00,000 records & downloading via using pen drive (in Excel format)
- Self purging technology via 2 keys press
- Optional Calibration Kit
- Cloud data monitoring & E-mail / SMS Alert facility (optional)

Applications

- Stack Monitoring
- Centrifuge Monitoring
- Process Monitoring
- Control Atmosphere
- Burner / Furnace Areas
- Power & Industrial Plants
- Automotive Industries / Paint Shops
- Industrial painting and coating
- Indoor air quality
- Refineries & Petrochemical plant including offshore drilling and plant shutdowns
- Waste water treatment plants
- Steel mills
- Pulp & Paper Industry
- Personal Monitoring
- Leak Detection
- Incoming Cylinder inspection
- Emergency response
- Equipment maintenance
- Pre entry check quality control
- Process or emission gas analysis

TECHNICAL SPECIFICATIONS

General Specification

Detection Method	: Suction/pressurised (depend on application)
Display	: 3 keys LCD with settable backlight
Set Point	: Two independent set points, relay o/p with AL1 & AL2 LED indication facility only
Setting	: Setting by 3 keys on front panel i.e. (SET, SHIFT/ACK, INCR)
Response Time	: T ₉ < 30 seconds
Warm-up Time	: 180 seconds

(Note : * - • Optional
• Other than above mentioned ranges please contact to our factory)
• For better accuracy sample should be DRY & CLEAN GAS.
• Accuracy measured as per calibration cylinder.
• For Dew Point Range & Accuracy please contact to our factory.

Electrical

Supply Voltage : 90 -240 VAC, 50Hz

Output Signal

Download : Data Logging facility with 1,00,000 records & downloading via using pen drive (in Excel format)

Output : • 2 Relay outputs for LOW & HIGH alarm
• RS-485 MODBUS RTU output

Environmental

Operating Temp.	: 0 to 50°C	Atmospheric pressure : 700 mbar to 1200 mbar
Storage Temp.	: 0 to 60°C	
Humidity	: Below 95% RH, Non condensing (40% to 60% RH recommended)	

Deliverable Accessories

- Operating Manual
- Consist of 2 way Valve built in sample pump, Filters, Flow meter, Solenoid Valve, with isolations in supply.

Enclosure Details

Cabinet Material	: MS
Size (external)	: 600 mm (H) x 600 mm (W) x 400 mm (D)
Weight	: 30 kg max

GAS WITH RANGE & RESOLUTION

ELECTROCHEMICAL SENSOR TECHNOLOGY

Sr. No.	GASES	RANGE	UNIT	RES.
01	Oxygen (O ₂)	25	%V/V	0.01
02	Oxygen (O ₂)	100	% V/V	0.1
NT1	Nitrogen (N ₂)	100	%V/V	0.1
TOXIC GASES				
T1	Ammonia (NH ₃)	100	PPM	1
T2	Ammonia (NH ₃)	1000	PPM	1
T3	Sulphur Dioxide (SO ₂)	2000	PPM	1

LIST OF NDIR BASED GAS WITH ENVIRONMENTAL CONDITION

GAS NAME	GAS RANGE	T 90	RESOLUTION	REPEATABILITY	LINEARITY ERROR	ACCURACY
CH ₄	100 % LEL	<30 sec.	0.1% LEL	±1% LEL	±2% LEL	< 2% of F.S. Reading or 0.5 % LEL whichever is more
CH ₄	100% V/V	<30 sec.	0.1% V/V	± 2% V/V	± 2% V/V	< 2% of F.S. Reading or 0.5 % V/V whichever is more
CO	5 000 PPM	< 30 Sec.	1 PPM	± 50 PPM	± 50 PPM	< 5% of F.S. Reading or ± 100 PPM whichever is more
CO	10 %V/V	< 30 sec.	0.01% V/V	± 0.2% V/V	± 0.1%V/V	< 3% of F.S. Reading or 0.2% V/V whichever is more
CO ₂	10000 PPM	< 30 Sec.	1 PPM	± 50 PPM	± 50 PPM	< 5% of F.S. Reading or ± 30 PPM whichever is more
CO ₂	5% V/V	< 30 sec.	0.01% V/V	± 0.02% V/V	± 0.1% V/V	< 5% of F.S. Reading or 0.5 % V/V whichever is more
CO ₂	100% V/V	<30 sec.	0.1% V/V	± 1% V/V	± 2% V/V	< 2% of F.S. Reading or 0.5 % V/V whichever is more

Manufactured by :



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