



An ISO 9001:2015 Company

Applied Techno Engineers Pvt. Ltd.

Process Monitoring Instruments

PORTABLE GAS MONITOR/ANALYZER MODEL ATS-101M

model ATS-101M is Portable Single/Dubel Gas Detectors are capable of detecting Oxygen, Toxic, and Combustible gases making them ideal for use in various environments. Compact, Light Weight Intelligent Unit with Application Specific Sensors Sensitive to PPB / PPM or % levels of Gases & Vapors.

FEATURES

- Complete Automatic Operation.
- 128X64 Graphics Display
- Continuous Diffusion / Suction Sampling
- Confidence Beep every 15 seconds.
- Complete self Integrity check on start
- Automatic Calibration.
- Display of WARN & ALARM
- Low battery Alarm.



Sample Type: Diffussion

(Without auto suction pump)



Sample Type: Auto suction

(with inbuilt auto suction pump)

The advanced Micro controller technology employed makes these ALERT METERS highly dependable, reliable and accurate. The complete automatic operation and calibration feature leaves no scope for user error.

These Compact, self contained and intrinsically safe designed instrument housed in a weather proof high impact plastic case are powered with a rechargeable Lithium 3.7V Dc battery.

On switching 'ON', the instrument goes thorough its complete self integrity check, and displays factory set Warn and Alarm values before indicating 'Ready' for monitoring.

While in Operation, the instrument monitors the work place continuously giving the latest update concentration of designated Gas through diffusion sampling. Suction sampling is possible with an optional manual or battery operated pump and adaptor. The poison resistant Pellister or long life, integrally mounted electrochemical Sensors with inbuilt cross interference filters are gas specific. Optionally the sensors can be mounted on an extension cable for monitoring inaccessible locations before entry.

The instruments emits an audible beep every 15 secs that provides confidence to the user that he is well protected. Audio, Visual also Warn and Alarms protect him from hazardous situations.

The Warn and Alarm Values are factory set. Low Battery Alarm alerts the user to replace or recharge the Battery. Special features like maximum exposed concentration and TWA readings can be incorporated



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SPECIFICATIONS

Overall Ranges	PPB / PPM / % V/V/% LEL
Sampling Method	Diffusion (D) or Suction (S)
Principle	Specific to Application (EC, NDIR, Solid State, Catalytic, PID)
Sensor Life	2 - 5 years
Measurement	Continuous.
Display	128 X 64 graphics Display (Reading, Alarm Icon & low battery Condition)
Resolution	0.01, 0.1 or 1 PPM, %V/V, % LEL as applicable.
Accuracy	+/- 2 % & 0.5% for oxygen.
Repeatability	+/- 2 %.
Response Time	< 30 seconds at 95 % variation.
Alarms	Low & HI Visual and Audible (User Customized))
Humidity	0-95% RH
Power Supply	3.7 V DC Long Life Lithium Rechargeable Battery
Battery Life	6-8 hours.
Housing & IP	High Impact Plastic. (ABS), Ingress Protection:IP68
Size & Weight	115(H) X180(L) X 60(D) ; 300 GM.
Temperature Range	-30 to 55 Deg. C.
Warranty	One year.

GAS DETECTED & RANGES

1. CO	0 - 50/4000 PPM / 10%	8. O ₂	0 - 25/100 %V/V	15. N ₂	0 - 25%/100% V/V
2. H ₂ S	0 - 50/2000 PPM & 1- 100%V/V	9. Br ₂ / F ₂	0 - 3/100 PPM	16. HCN	0 - 10/100 PPM
3. SO ₂	0-20/500 PPM	10. HCl/HF	0 - 3/100 PPM	17. PH ₃	0 - 5/ 2500 PPM
4. H ₂	0 - 10000PPM & 0-100% LEL	11. HBr	0 - 10/100 PPM	18. COCl ₂	0 - 1 PPM
5. NO/NOX	0 - 50/2000 PPM	12. Co ₂	0 - 25 TO 100% V/V	19. NH ₃	0 - 50/200 PPM
6. NO ₂	0 - 3/100 PPM	13. Comb Gases	0 - 100 % LEL & 0-4%V/V	20. VOC.	0 -10/1000 PPM
7. Cl ₂	0 - 20/500 PPM	14. Helium	0 - 500PPM & 0-100% V/V		

ORDERING INFORMATION

ATS-101 - CO, 100, S
 Gas _____
 Range _____
 Sampling _____

The above Parameters and Ranges are only indicative. Applied Techno Engineers Pvt. Ltd. will build up and supply the analyzer with Parameters, range and features to any Practical Configuration.



Applied Techno Engineers Pvt. Ltd.

Sales & Administration Office:

104, Delta Industrial Estate, Building no.1, Bhoidapada, Ghokivare,
 Sativali Road, Vasai(E) Thane Dist-Palghar 401208 Maharashtra, India

Email: info@at-epl.com, sales@at-epl.com, info@appliedtechnosystems.net

+91 8652226750

Website: www.appliedtechnosystems.net