

환경부 형식승인번호 : 제ASGAM-2005-9호



Model : GA-40T Plus

Features ●●●

- NDIR-THC propane 환경부 형식승인 획득 장비
- 기본구성 : O₂, CO, NO, 3M Heating Hose 및 Peltier Dryer 외 (NO₂, SO₂, H₂S, CL₂, H₂, HCl, 유속, 유량 및 NDIR-THC, CO₂, CH₄) 9가지 센서 사용 가능
- (Electrochemical Sensor 7개, NDIR-Sensor 2개) 기본 구성외 사용자 선택
- Inconel Probe 와 내부 Peltier Dryer 사용으로 T-gas 1600°C에서도 안정적인 측정 가능
- 최소 10초 간격으로 연속저장 가능
- 장비 내 오염물질 농도변화 추이용 소형 그래프 및 프린터 기능

PC 전송 화면

Date: 01/02/2028	Total: 30		
Time: 09:54:44	Selected: 30		
Period: 10 sec			
Bank name:			
Info: Data read from analyzer No 43001019 on 14/10/2005 as bank #1			
Fuel: W. KAMIENNY 30.3 (R)			
<input checked="" type="checkbox"/> Original Fuel			
O ₂ R: 6 %			
<input checked="" type="checkbox"/> Original O ₂ R			
View: <input type="radio"/> Chart <input checked="" type="radio"/> Single <input type="radio"/> Averaged			
Print			

	CO	NO	SO ₂	NOx	
Abs. volume con.	26	95	157	100	[ppm]
Mass concentr.	32	129	468	206	[mg/m ³]
Rel. mass concentr.	52	211	762	340	[mg/m ³]
Relative emission	18	75	221	121	[mg/G]

Combustion parameters		Data logger	
O ₂ : 11.81 %	T spain: 223 °C	T1 Ext.:	--- °C
CO ₂ : 8.07 %	T pow.: 12 °C	T2 Ext.:	--- °C
COu: 60 ppm	Stack loss: 17.6 %	T3 Ext.:	--- °C
	Efficiency: 82.4 %	T4 Ext.:	--- °C
	Loss by inc. comb.: 0.0 %	Pressure:	-0.22 hPa
	Reduced efficiency: 82.4 %	U1 1:	--- V
	Excess air: 2.29	U1 2:	--- V

	Time	Tgas	Tamb	O ₂	CO ₂	COu	Lambda	SL	ETA	IL	CO	NO
	[hh:mm:ss]	°C	°C	%	%	ppm	---	%	%	%	ppm	ppm
1	3:54:54 AM	223	12	11.81	8.07	60	2.29	17.6	82.4	0.0	26	95
2	3:55:04 AM	223	12	11.80	7.99	67	2.32	17.7	82.3	0.0	29	95
3	3:55:14 AM	222	12	12.04	7.87	70	2.35	17.9	82.1	0.0	30	94
4	3:55:24 AM	222	12	12.13	7.79	71	2.37	18.1	81.9	0.0	30	94
5	3:55:34 AM	222	12	12.16	7.76	74	2.38	18.2	81.8	0.0	31	94
6	3:55:44 AM	222	12	12.07	7.84	83	2.36	18.0	82.0	0.0	35	95
7	3:55:54 AM	222	12	12.14	7.78	95	2.38	18.1	81.9	0.0	40	93
8	3:56:04 AM	222	12	12.08	7.83	109	2.36	18.0	82.0	0.0	46	93
9	3:56:14 AM	221	12	12.10	7.82	123	2.37	18.0	82.0	0.0	52	93
10	3:56:24 AM	222	12	12.10	7.82	137	2.37	18.0	82.0	0.0	58	94
11	3:56:34 AM	222	12	12.07	7.84	132	2.36	18.0	82.0	0.0	56	95
12	3:56:44 AM	222	12	11.96	7.94	151	2.33	17.8	82.2	0.0	65	96
13	3:56:54 AM	222	12	11.91	7.98	155	2.32	17.7	82.3	0.0	67	96

Portable Multi Gas Analyzer

Specifications

Parameter	method	Range	Resolution
O ₂ - Oxygen	Electrochemical sensor	0...25%	0.01%
THC - total hydrocarbon	NDIR sensor	0...5000ppm	1ppm
CO ₂ - Carbon dioxide	NDIR sensor	0...100%	0.01%
CO ₂ - Carbon dioxide	calculated	0...25%	0.01%
CH ₄ - Methane	NDIR sensor	0...100%	0.01%
CO - Carbon monoxide	Electrochemical sensor	0...20000ppm	1ppm
NO - Nitrogen oxide	Electrochemical sensor	0...5000ppm	1ppm
NO ₂ - nitrogen dioxide	Electrochemical sensor	0...1000ppm	1ppm
NO ₂ - nitrogen dioxide	calculated	0...1000ppm	1ppm
SO ₂ - sulphur dioxide	Electrochemical sensor	0...5000ppm	1ppm
H ₂ S - Hydrogen sulfide	Electrochemical sensor	0...5000ppm	1ppm
H ₂ - Hydrogen	Electrochemical sensor	0...2000ppm	1ppm
CL ₂ - Chlorine	Electrochemical sensor	0...200ppm	1ppm
HCl - Hydrogen chloride	Electrochemical sensor	0...200ppm	1ppm
T-gas - flue gas temperature	thermocouple	-10...1600°C	1°C
T-amb - ambient air temperature	thermistor	-20...100°C	1°C
T1, T3 - 2 external temperature inputs	thermocouple	0...1600°C	1°C
T2, T4 - 2 external temperature inputs	thermistor	-20...100°C	1°C
U1, U2 - 2 external voltage inputs	A/D converter	-20V...+20V	0.01V
I1, I2 - 2 external current inputs	A/D converter	-20mA...+20mA	0.01mA
Lambda - excess air number	calculated	1...10	0.01
SL - stack loss	calculated	0...100%	0.10%
Eta - efficiency	calculated	0...120%	0.10%
pressure relative to ambient	DMS bridge	-50hPa...+50hPa	1Pa
Flow velocity (option)	Pitot tube	1...50m/s	0.1m/s
Flow-rate	calculated	Velocityx cross section	1m ³ /s
Soot test (Bacharach method)	automatic	0...9	0.5