Discover

ETG 6500 SYN WM

advanced multicomponent gas analyzer for Syngas



O₂, CO₂, CO, CH₄, H₂, C_nH_m MONITORING

Suitble for applications:

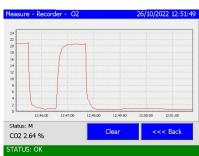
- Syngas Plants
- Hythane Plants
- Research Center
- Syngas System

The ETG **6500 SYN** series of gas analyzers by ETG are the ideal solution for Syngas measurement applications because of their accuracy, stability, reliability, broad measurement range, and the variety of available form factors. Unlike other analyzers, ETG 6500 SYN non-dispersive infrared (NDIR) gas analyzers measure multiple gases in the instrument in special wavelenght regions, interferences free from the other components.

The TCD detector used for H_2 analysis is automatically corrected via proprietary algorithm for possible interferences by other gases. ETG analyzers have the ability to measure CH_4 , CO_2 , CO, C_nH_m , H_2 and O_2 providing the optimal combination of gases for Syngas process optimization. The enhanced optics and electronics of our NDIR analyzers have virtually eliminated zero drift after the initial warm up period. The temperature and pressure compensation eliminates the major causes of span drift in the instruments.

USER INTERFACE OVERVIEW





- Arm processor
- Touch Screen monitor
- Ethernet, Wi-Fi and USB Remoting
- Low cost of ownership
- Modbus, Pro ibus, Ethernet (optional) and others





SPECIFICATIONS

- NDIR (for CO₂ CO and CH₄) & TCD (for H₂) technology
 N₂ and Heat value calculate by proprietary algorithm (standard)
 TCD for H₂
- C_nH_m measured by NDIR detector (optional)

- Sample conditioning system (optional)
- Automatic Autozero free selectable
- Continous Calculation Calorific Value
- Totally developed in Italy

Response Time	Response time are specified at a sample flow rate of 1 liter per minute through the MCA 100 sample cell				
Data Refresh Rate	1 second				
Warm-up Time	30 seconds ready, 3 minutes useable, 30 minutes full performance				
Operating Temperature	0° to 70° C (32° to 158° F)				
Operating Humidity	To 95% RH (Non-condensing)				
Operating Altitude	-300 to 3.000 m (-1.000 to 10.000 ft)				
Communications	USB port (standard)				
Case protections	IP55				
Monitor	Touch Screen 5.7" Resistive Type				
Calibration	Zero & Span user selectable				
External Electrical Supply	from 100 to 240 Vac 47-63 Hz				
Pneumatic Connection	Rapid fittings 6.0 OD 4.0 ID				
Mechanical Dimensions & Weight	60 x 80 x 35 cm - 25 Kg				

TECHNICAL DATA

Measurement Method	Gas	Resolution	Range	Accuracy	Precision	Time
NDIR (Non- Dispersive Infrared)	Methane	0,01%	0-100%	+/-1% F.S.	+/-0,8%	T ₉₀ &T ₁₀ < 10 seconds
NDIR (Non- Dispersive Infrared)	Carbon Dioxide Carbon Monoxide	0,01%	0-40%*	+/-1% F.S.	+/-1% F.S.	T ₉₀ &T ₁₀ <10 seconds
Electrochemical sensor	Oxygen	0,1%	0-25.00%	+/-2% F.S.	+/-2% F.S.	<40 seconds from ambient to 0.15 O ₂
Thermoconductibility	Hydrogen	0,1%	0-10% 0-20% 0-50% 0-100%	+/-2% F.S.	+/-2% F.S.	T ₉₀ &T ₁₀ <20 seconds
NDIR (Non- Dispersive Infrared)	Hydrocarbon	0,01%	0- 5% 0-10% 0-20%	+/-1% F.S.	+/-1% F.S.	T ₉₀ &T ₁₀ <10 seconds