

The Thermo Scientific Tracker XP is an economical, easy-to-use online analyzer for the measurement of H₂S in gas hydrocarbon streams. It uses lead acetate tape technology to reliably measure hydrogen sulfide to heighten process efficiency while keeping capital expenditures low.

Thermo Scientific Tracker XP

Online H₂S Analyzer



Applications

- Reformer cycle gas
- Sweetening plants
- Amine and caustic treaters
- Catalyst protection
- Stack monitoring
- Environmental monitoring
- Fuel gas monitoring

Features

- Lead acetate tape detector is H₂S-specific with no known interferences
- Two independently calibrated measurement ranges with automatic range change
- Dual-stream analysis with automatic stream switching (optional)
- Auto-calibration (optional)
- Explosion-proof/flame-proof
- Range extension capability (optional)
- Supported by ASTM D4045, D4084, D4323 and D6313, depending on the application

Reliable, Safe & Cost-Effective

Capable of measuring in ppm, ppb and percent levels, the Thermo Scientific Tracker XP has proven to be a reliable, cost-effective online analyzer that uses a lead acetate tape detector to determine the amount of H₂S in gas hydrocarbon process streams. Because lead acetate tape has no known interferences, the measurement reflects the actual concentration of H₂S present in the stream. This rapid, efficient detection helps to streamline your process, keep your product within specification and ensure regulatory compliance.

Versatile & Configurable

The Tracker XP can be configured to automatically switch between two independently calibrated ranges based on the measured concentration in the stream. Alternatively, automatic stream switching is available for dual stream applications.

Using a Thermo Scientific range extension system, it can be configured for a wide variety of calibration ranges and stream compositions. Accurate and versatile, this analyzer ensures a strong return on investment.

Simple Setup & Operation

Setup and operation are controlled by customized software that is installed on a laptop computer. The Thermo Scientific MagnaTouch® control display on the Tracker XP permits local viewing of operational status and control of analyzer parameters that facilitates user access when the laptop is not easily accessible to help optimize your operations.

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Analytical Performance				
Detector	Lead acetate tape for H ₂ S specific measurement			
Measuring Ranges	Two independently calibrated measurement ranges with automatic range change ¹ (optional)			
	Min. Range* (volume basis/ full scale)	Max. Range* (volume basis/ full scale)	Range Extension System Type	Stream Composition
Tracker XP:	1 ppm	32 ppm	None; no dilution	N/A
Tracker XP-RX:	50 ppm	10%	Utilizes Valco injection valve	nC4 > 3% / volume
Tracker XP-RXM:	50 ppm	5%	Utilizes gas permeable membrane	nC4 < 3% / volume
	<i>*Lower detectable limit approximately 10% of full scale value</i>			
Repeatability	±2% of full scale			
Linearity	±2% of full scale			
Response Time	20 seconds (typical) for alarm response with high level breakthrough			
Number of Process Streams	Single (standard); dual-stream analysis with automatic stream switching ² (optional)			
Calibration	Manual (standard); automatic (optional) on NEC certified model only			
Analog/Discrete Data Communications				
Analog Outputs	Isolated 4-20 mA DC for stream output(s)			
Alarm Outputs	4 total (high, low, malfunction and low tape); high and low alarms can be configured for latching or non-latching, and for normally open or normally closed; malfunction alarm triggered by broken tape, lamp out, calibration failure or injection suspend			
I/O Ports	RS-232 for laptop or modem RS-232 or RS-485 Modbus (optional)			
MMI	Front panel display with MagnaTouch keypad and external computer (i.e., laptop) via serial link			
Utility Requirements				
Ambient Temperature	-10°C to +40°C (-14°F to +104°F), 5 to 95% real humidity with temperature controlled analyzer cabinet supplied by Thermo Fisher Scientific			
Power	110 VAC at 50/60 Hz 220 VAC at 50/60 Hz			
Instrument Air	60 psig minimum (RX model only); cabinet cooler option requires 6 SCFM			
N ₂	Nominally 200 cc/minute (RX and RXM models only)			
Certifications				
Area Classification	NEC Class I, Div 1, Groups B, C & D ATEX EX II 2G, EEx d IIC T6			

¹Ranges are application-dependent. For other available ranges, consult Thermo Fisher Scientific.

²Dual range and dual stream are two independent options that are not offered together.

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Room 1010 - 1019	+86 (10) 5850-3588
Ping'an Mansion No. 23 Jinrong Street	+86 (10) 6621-0847 fax
Xicheng Dist, Beijing 100032 CHINA	
A-101, ICC Trade Tower, Senapati Bapat Road	+91 (20) 6626 7000
Pune 411016 Maharashtra, INDIA	+91 (20) 6626 7001 fax
Ion Path, Road Three, Winsford	+44 (0) 1606 548700
Cheshire CW7 3GA UNITED KINGDOM	+44 (0) 1606 548711 fax
1410 Gillingham Lane	+1 (800) 437-7979
Sugar Land, TX 77478 USA	+1 (713) 272-0404
	+1 (713) 272-4573 fax