

FM200 Gas Analyzer (%)

HIGHEST ACCURACY & LOWEST COST



FM200 Gas Analyzer (%)

Transdox-3100G FM200


Configuration:

* Transdox 3100 G: FM200 - H₂O.

Optional swing handle, Pely-style carry case, printer and gas filter.

amperis

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The Transdox FM200 (HFC227ea*) IR analyzer is a high precision bench mounted gas analyzer designed for monitoring and measuring the purity of FM200 (HFC227ea) gas. The Infra-red cell technology provides extremely stable and accurate readings in only a few minutes. The analyzer offers measurements of FM200 (HFC227ea) in the 0% to 100% range and also measures the moisture content of the FM200 (HFC227ea) with the built-in H₂O sensor (-100 to +20°Cdp).

The gases can be measured, monitored and data-logged simultaneously. An internal pressure sensor compensates for any small changes in gas pressure to maintain the accuracy of readings.

The analyzer is easy to use and is also packed with features including programmable alarm circuits, programmable analogue outputs, easy calibration (user selectable gases), RS232 communications and complete communications / data logging software.

FM200 (HFC227ea) is an odorless, colorless, liquefied compressed gas, which discharges as an electrically non-conductive, clear vapor. FM200 (HFC-227ea) extinguishes fire by a combination of chemical and physical mechanisms. It has zero ozone-depleting potential, low global warming potential, and a short atmospheric lifetime. The use of FM200 (HFC227ea) is becoming the preferred asset and personnel protecting fire suppressant agent in the fire protection industry. FM200 (HFC227ea) is already installed into the fire prevention equipment within the majority of office blocks, industrial and commercial buildings throughout the world.

The purity and quality of fire suppressant gas is paramount to its efficiency. This, coupled with the expensive cost of replacement, makes gas purity testing highly cost effective and a must for the safety conscious.

HFC227ea is also known as the following gases (manufactures in brackets):


FE-227 FM-200 (Dupont)
Solkaflam 227 (Solvay Fluor)
MH-227 (Shanghai Waysmos)
NAF S 227 (Safety Hi-Tech)

Features:

- Continuous gas sampling of HFC227ea and- H₂O.
- High precision infra-red gas detector for HFC227ea analysis over the range 0-100%.
- Ceramic dew-point sensor for moisture analysis -100°C to + 20°Cdp (or ppmv).
- HFC227ea sensor accuracy ± 1% of the full scale.
- Input pressure 0.5 to 2 bar with safety blow off valve.
- Gas flow rate 0.5 - 1 litre per minute controlled by flow gauge.
- Programmable alarms with outputs and visual warning.
- RS232 / RS485, 0-5V and 4-20mA current loop outputs (all user programmable).
- On-board Windows data logging software with MS-Excel compatible graphing.
- Full sample kit available (sample hoses, couplings, printer and Peli-case).

Applications:

- Measuring the purity of HFC227ea gas.
- Measuring the moisture content of HFC227ea gas.
- Detecting the presence of leaks and HFC227ea gas discharge.
- Use in conjunction with an HFC227ea gas recycling system.

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Specifications Transdox 3100G FM200 (HFC227ea)

Technical Data: Analyzer

Voltage	90-260Vac, 50/60Hz
Analyzer dimensions	350mm x 263mm x 150mm
Weight	7 kg (5,5kg Transdox 3100 EAB)
Display	20 x 4 character (9mm) back lit LCD
Warm up time	3-4 minutes at 20°C
Operating temperature	-10°C to 40°C
Voltage outputs	0-5V linear, user-programmable
Current outputs	4-20mA linear, user-programmable
Digital outputs	RS232 (RS485 option available): data streamed on demand
Calibration	Requires 1 or 2 user selectable gas mixtures
Max inlet pressure	2 bar (protected)

Technical Data: Sensor

FM200 (HFC227ea) Sensor	0-100%; ±1% of full scale
H₂O Sensor	-100°C to +20°C dp; ± 2°C dp
Life expectancy	2-3 years: FM200 (HFC227ea), >5 years H ₂ O
Measurement time	Approx 5-10 mins
Sensor drift	<2% of span per month
Sample connections	4mm ID / 6mm OD Rectus / DILO style closed coupled fittings

Optional Accessories

Optional Transdox Gas Recovery Bag



Optional Transdox Sampling Kit



- Transdox 3100G analyzer
- Handle
- Thermal printer
- Sample hoses
- Heavy duty Peli-style case