



# Transpector CPM Compact Process Monitor

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## Comprehensive Gas Analysis Made Affordable

INFICON Transpector® CPM provides *in situ* early warnings and lowers costs by:

- measuring gas phase reactions
- verifying vacuum integrity
- identifying trace-level contaminants
- measuring process and background composition
- qualifying gas purity

The INFICON CPM Compact Process Monitor is a full-featured, compact and affordable gas analyzer that's ideally suited for in situ monitoring of complex processes. This dry-pumped system uses the proven technology of the INFICON [Transpector 2 Gas Analysis System](#) to help achieve new levels of performance.



## FEATURES

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- quadrupole-based gas analysis system for monitoring complex processes.
- allows 24/7 monitoring to maximize yield and throughput, thereby minimizing costs.
- compact and affordable enough to be installed on every high-pressure vacuum chamber.
- HexBlock™ sampling system maximizes performance.
- built-in CDG for process pressure monitoring and vacuum interlock.
- optional calibration reference available for tuning and gas reference.
- long-life closed ion source permits contaminant detection at sub-ppm levels while resisting most corrosive and reactive gases.
- lightweight and easily transportable.

## SPECIFICATIONS

Type	CPM
Mass Range	1-100
Peak Width @ 10% Peak Maximum	< 1
Ion Source Type	Ion Source Type
Total Pressure Range	5E-7 to 1E-3 (6.6E-7 to 1.3E-3)
Total Pressure Accuracy	±25% 1E-6 to 1E-3 (1.3E-6 to 1.3E-3)
Maximum Ion Source Operating Pressure	1E-3 (1.3E-3)
Nominal Ion Source Operating Pressure	2E-4 (2.6E-4)
System Operating Pressure (w/ orifices/capillary)	1E-8 (1.3E-8) to 2 atmospheres
Multiplier Gain @ 1225 Volts	> 10000
Sensitivity	
@ Low Emission, FC mode	> 4.0E-6 (> 3E-6)
@ High Emission, FC mode	> 1.0E-5 (> 7.6E-6)
Minimum Detectable Partial Pressure	2.0E-13 (2.6E-13)
Abundance Sensitivity	< 5
Zero Blast	< 25
Detection Limit	< 1
Linearity	±20%
Minimum Background Pressure	< 1.0E-8 (< 1.3E-8)
Maximum Sensor and Inlet Operating Temperature	150



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