GRANVILLE-PHILLIPS® INDIRECT VACUUM GAUGES
RELIABLE, PRECISE AND DEPENDABLE
VACUUM MEASUREMENT TECHNOLOGY
Vacuum users worldwide turn to MKS Granville-Phillips® products for reliable, precise, dependable vacuum measurement technology for measuring pressure from $10^{-11}$ to 1500 Torr. Our vacuum gauges, transducers, sensors and controllers are based on multiple pressure measurement technologies including Convectron®, Micro-Ion®, MicroPirani™, Piezo hot and cold cathode, Stabil-Ion®, and MEMS-based multi-sensor technology.

Whether your vacuum systems are used for semiconductor process tools, analytical instruments, educational or governmental research, or industrial processes, you face an assortment of challenges. MKS is the solution—providing accuracy, stability and dependability to improve the quality and productivity of your vacuum processes.

- Superior performance
- Broad selection
- Tailored solutions
- High accuracy
- Easy integration
- Trusted partner
Indirect Vacuum Gauge Selection Guide

VACUUM PRESSURE SENSORS
- Accurate vacuum measurement from the $10^{-3}$ Torr range
- Convectron-enhanced extends pressure measurement to atmosphere
- Stabil-Ion Gauge has memory module with calibration data
- Ultra-clean gauge construction allows rapid response during pumpdown
- Wide selection of vacuum fittings for simple installation
- Models include: 370, 275, 423

BAYARD-ALPERT SENSORS
- Small footprint design
- All-metal, glass tubulated, and nude sensors available
- Burn-out resistant filaments
- Low power
- Models include: 355, 274 Glass Tube, 274 Nude Tube

VACUUM GAUGE CONTROLLERS
- Vacuum pressure measurement from $1 \times 10^{-4}$ Torr to atmosphere
- Analog outputs, setpoint relays, and serial communication options
- Rack and bench-mount models available
- Menu controls for configuration and parameter setup
- RoHS and CE compliant
- Models include: 475, 358, 370, 307, 350, 937B, 946 PDR900

VACUUM QUALITY MONITOR SYSTEMS
- 1-145 amu total and partial pressure measurement information
- Instant access to 10 most prevalent gases
- Data logging at 85 ms sample rates
- Single-gas calibration
- Cables available up to 20 meters in length
- Models include: 835 VQM, 835 Differential Pump System
WHY MKS?

**CRITICAL TECHNOLOGIES**
World-class technology and development capabilities for leading-edge processes

**PROVEN PARTNER**
Recognized leader delivering innovative, reliable solutions for our customers’ most complex problems

**OPERATIONAL EXCELLENCE**
Consistent execution across all aspects of our business

**COMPREHENSIVE PORTFOLIO**
Extensive offering of products and services for the markets we serve

MKS INSTRUMENTS enables technologies that transform our world. We deliver foundational technology solutions to leading edge semiconductor manufacturing, electronics and packaging, and specialty industrial applications.

We apply our broad science and engineering capabilities to create instruments, subsystems, systems, process control solutions and specialty chemicals technology that improve process performance, optimize productivity and enable unique innovations for many of the world’s leading technology and industrial companies.

Our solutions are critical to addressing the challenges of miniaturization and complexity in advanced device manufacturing by enabling increased power, speed and feature enhancement for optimized connectivity. Our solutions are also critical to addressing ever-increasing performance requirements across a wide array of specialty industrial applications.

Additional information can be found at [www.MKS.com](http://www.MKS.com).

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