

# Now There's A Better Alternative To Large, Fragile, Hot, Limited-performance Glass Ionization Gauges

**MICRO-ION™ Gauges — Smaller, More Rugged, Wider Range, More Burnout Resistant, Less Heat Generation than Glass Gauges**

## World's Smallest Ionization Gauge

The *MICRO-ION* mounts almost any place on today's complex vacuum systems. It occupies less than 5% of the volume of a glass gauge, so you're not constrained to mounting locations dictated by a bulky glass gauge.

## Eliminate Glass Gauge Accidents

Glass gauges, accidentally bumped, can implode into vacuum systems—spreading shards of glass everywhere—into expensive valves, pumps, processes... while the clock ticks away on your schedule and your budget is consumed by "maintenance expense."

## Extended Useable Range

The *MICRO-ION* has an x ray limit equivalent to that of a glass gauge ( $3 \times 10^{-10}$  Torr) — this was considered impossible in a miniature ionization gauge until Granville-Phillips developed the unique dual ion collector design (patent pending) used in the *MICRO-ION*. On the other end of the scale, measurement up to  $5 \times 10^{-2}$  Torr is possible—compared to approximately  $5 \times 10^{-3}$  Torr for a glass gauge.

## Robust Filament Design Results In Increased Uptime

Long gauge life is provided by dual, low power, burn-out resistant, yttria-coated iridium filaments. In addition, unscheduled downtime is avoided by using the second filament as a backup until the gauge can be replaced during regular maintenance procedures.

## Less Heat

Lower *MICRO-ION* Gauge power requirement—only 8% of the power of a glass gauge—means less heat to disturb a process or experiment, less chance of accidental burns, and less chance of melting wiring that may come in contact with the gauge.



*MICRO-ION* Gauge.  
Actual Size

Typical glass gauge. Actual Size

## Switching to the *MICRO-ION* is easy

You can use:

- *MICRO-ION* Controllers with numerous optional features, or
- Modules with integral gauge and electronics, or
- An existing Granville-Phillips controller (with adapter), or
- Other ionization gauge controllers (please inquire about adapter availability.)

If you're ready to move from the 1950's technology and drawbacks of a glass gauge to a modern alternative — that is surprisingly affordable — call us today.



## **GRANVILLE-PHILLIPS** HELIX TECHNOLOGY CORPORATION

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