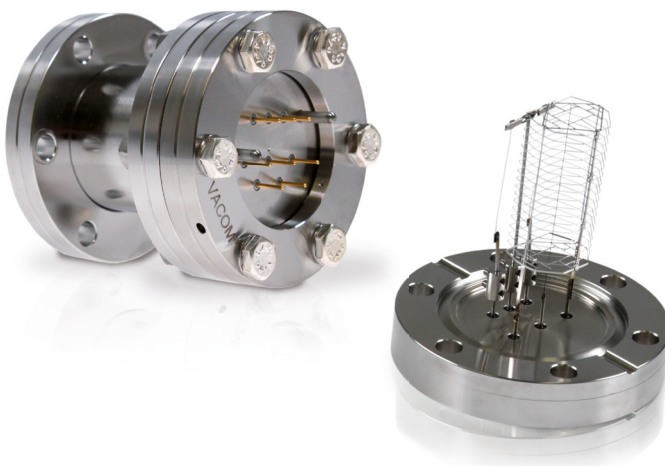


# BARION® *basic II / pro II*

Passive hot cathode sensor

EN



- Excellent accuracy and reproducibility
- Low heat load < 6 W
- Replaceable filaments



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## Technical data

| ■ Product name                              | BARION® <i>basic II</i>  | BARION® <i>pro II</i>   |
|---|--|---|
| ■ Principle of measurement                  | Hot cathode ionization (Bayard-Alpert)   |   |
| ■ Measurement range                         | 1 · 10 <sup>-9</sup> to 1 Pa   1 · 10 <sup>-11</sup> to 1 · 10 <sup>-2</sup> mbar   7.5 · 10 <sup>-12</sup> to 7.5 · 10 <sup>-3</sup> Torr                             |   |
| ■ Accuracy                                  | ± 20 % (1 · 10 <sup>-8</sup> to 1 · 10 <sup>-2</sup> mbar)   | ± 10 % (1 · 10 <sup>-8</sup> to 1 · 10 <sup>-2</sup> mbar)    |
| ■ Reproducibility                           | ± 10 % (1 · 10 <sup>-8</sup> to 1 · 10 <sup>-2</sup> mbar)   | ± 5 % (1 · 10 <sup>-8</sup> to 1 · 10 <sup>-2</sup> mbar)     |
| ■ Pressure reading gas type dependent       | yes  |   |
| ■ Vacuum connection                         | DN40CF   |   |
| ■ Bakeout temperature                       | 200 °C (in operation with VaX and cable)<br>150 °C on chamber flange (in operation with VaX <i>linkB</i> )   |   |
| ■ Operating temperature                     | 200 °C (in operation with VaX and cable)<br>50 °C (in operation with VaX <i>linkB</i> )  |   |
| ■ Filaments                                 | 2x iridium, yttria coated (replacable)   |   |
| ■ Materials in vacuum                       | SS, W, Au, Y <sub>2</sub> O <sub>3</sub> on Ir, glass, Ag  | SS, W, Au, Y <sub>2</sub> O <sub>3</sub> on Ir, glass, Ag, Cu |
| ■ Weight                                    | 0.3 kg   | 1 kg (flange dependent)                                       |
| ■ Mounting position                         | any  |   |
| ■ Electrical Connection                     | VACOM special plug (11 pins)   |   |
| ■ Dimensions                                | ØxH: 70x70   | ØxH: 70x91  |
| ■ Scope of delivery                         | sensor   |   |
| ■ Corresponding display and control devices | VaX Vacuum Explorer<br>VaX <i>linkB</i>  |   |
| ■ Accessory                                 | FILAMENT-BPS-SET<br>CABLE-VAX-BARIONBPS-X (X= length = 3 m, 5 m, 10 m, 15 m, other on request)<br>CABLE-VAX-LAH-X (X= length = 3 m, 5 m, 10 m, 15 m, other on request) |   |

## Compatible display units and accessories



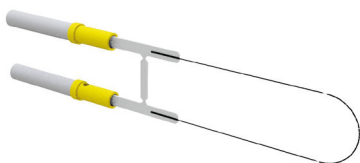
### Vacuum Explorer VaX

The control unit for active (transducer and passive (conventional) gauges. Take the display technology - vacuum pressure on a mobile device.



### CABLE-VAX-BARIONBPS-X

With a length of 3, 5, 10, or 15 meters. Other lengths on request. All cables are bakeable up to 200 °C.



### FILAMENT-BPS-SET

With yttria coated iridium and CU40 sealing ring.