

MASS-VIEW

# MV-396-HE

Helium Flow Regulator with integrated display



## Technical specifications

### Measurement & control

|                          |                                                                              |
|--------------------------|------------------------------------------------------------------------------|
| Type of media            | Any clean and dry gas, filter recommended                                    |
| Flow range               | min. 0,2...10 l <sub>n</sub> /min<br>max. 1...100 l <sub>n</sub> /min        |
| Accuracy                 | ±2% Rd for flow > 50% of max. capacity;<br>±(1% Rd + 0.5% FS) on lower flows |
| Repeatability            | <0.2% FS typical                                                             |
| Turndown ratio           | up to 1 : 100                                                                |
| Pre-installed gases      | He                                                                           |
| Response time (sensor)   | 2 sec                                                                        |
| Operating temperature    | 0...50 °C (32...122 °F)                                                      |
| Temperature sensitivity  | Zero: <0.1% FS/°C, Span: <0.2% Rd/°C                                         |
| Leak integrity, outboard | tested < 2 x 10 <sup>-9</sup> mbar l/s He                                    |
| Mounting                 | < 0.1% FS                                                                    |

### Approvals

|         |                       |
|---------|-----------------------|
| Marking | CE, RoHS, WEEE, REACH |
|---------|-----------------------|

### Mechanical specs

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Pressure rating (PN)  | 10                                                        |
| Ingress protection    | IP40                                                      |
| Material wetted parts | Meter: Aluminium; Needle valve: SS316                     |
| Sealing material      | Viton®, PTFE                                              |
| Process connections   | G 1/4" BSPP female thread (compression fittings optional) |
| Weight                | 0.7 kg                                                    |

### Electrical properties

|                       |                                           |
|-----------------------|-------------------------------------------|
| Power supply          | 15...24 Vdc (+/-10%)                      |
| Power consumption     | 2 W (90 mA at 24 V)                       |
| Analog output         | analog: 0...5 Vdc                         |
| Digital communication | digital: RS232 / RS485 (Modbus ASCII/RTU) |

### Electrical interfaces