

## Data sheet: Vapor Quality Sensor - Inline

The Vapor Quality Sensor provides real-time, precise measurements of the evaporation process within your system. Think of it as an electronic sight glass, continuously monitoring the refrigerant's state in the pipes. This sensor gives accurate insights into the evaporation process.

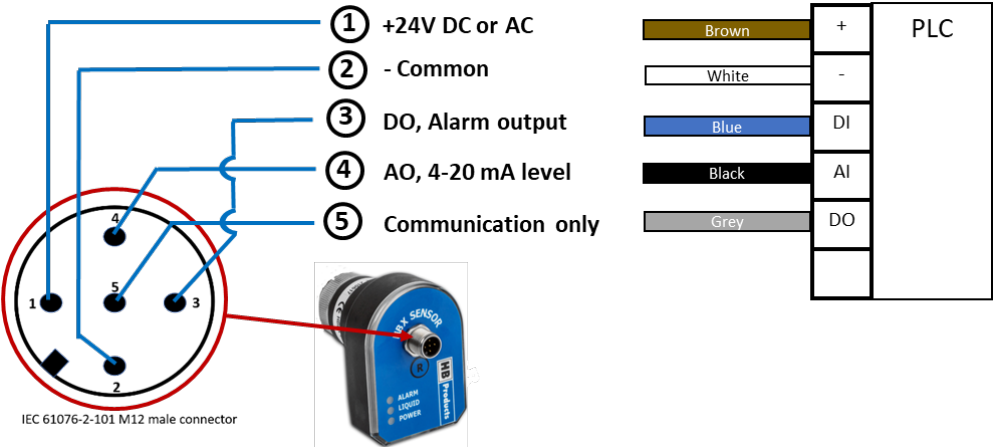


The choice of sensor variants depends on the system design, particularly the refrigerant type and suction line diameter. This data sheet gives information about the Inline version.

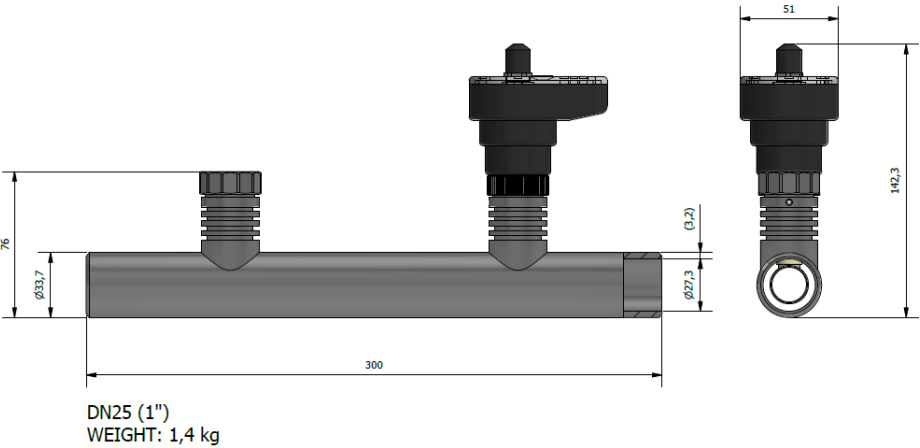
| Power supply                    |                                     |
|---------------------------------|-------------------------------------|
| Voltage                         | 24V AC/DC                           |
| Max. current                    | 600 mA                              |
| Plug connection                 | M12, 5 pins – IEC 61076-2-101       |
| Output                          |                                     |
| Analog output                   | 4-20 mA                             |
| Valve output (special versions) | Max 1A modulating/PWM/Stepper motor |
| Max. load resistance            | 500 $\Omega$                        |
| Digital output - alarm          | PNP 1A, NO/NC programmable          |
| Environmental conditions        |                                     |
| Ambient temperature             | -30°C to 50°C (-22°F to 122°F)      |
| Liquid temperature              | -55°C to 145°C (-67°F to 293°F)     |
| Max. pressure                   | 100 bar (1450 psi)                  |
| Protection degree               | IP65                                |
| Vibrations                      | IEC 60068-2-6 (4g)                  |
| Mechanical specifications       |                                     |
| Connection                      | Welded                              |
| Size                            | See the dimensional drawing below   |
| Material - mechanical part      | AISI 304 / PTFE / PEEK / PA6        |
| Material - electronic part      | PA6                                 |
| Approvals                       |                                     |
| EMC test                        | EN 61000-2                          |

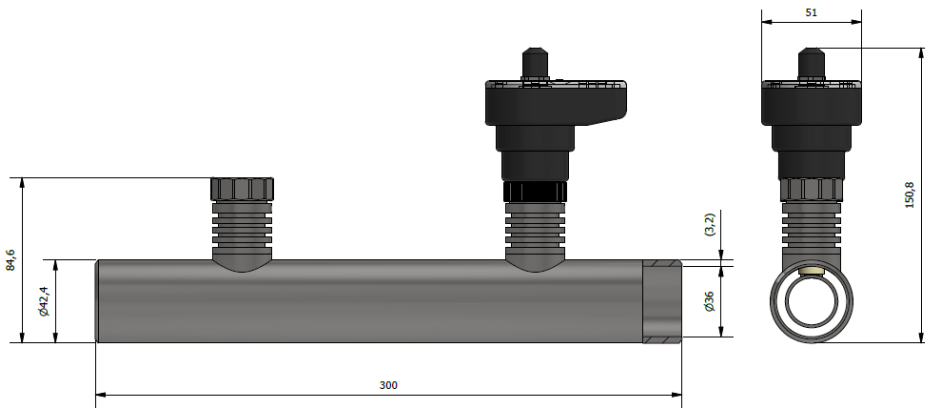
| Indication       |                                                             |
|------------------|-------------------------------------------------------------|
| LED indication   | Green, yellow & red LED                                     |
| Configurations   |                                                             |
| Configuration    | HB Tool (USB cable required (optional))                     |
| Scope of supply  |                                                             |
| Package includes | Mechanical part & electronic unit<br>Supply cable<br>Manual |

Electrical connections

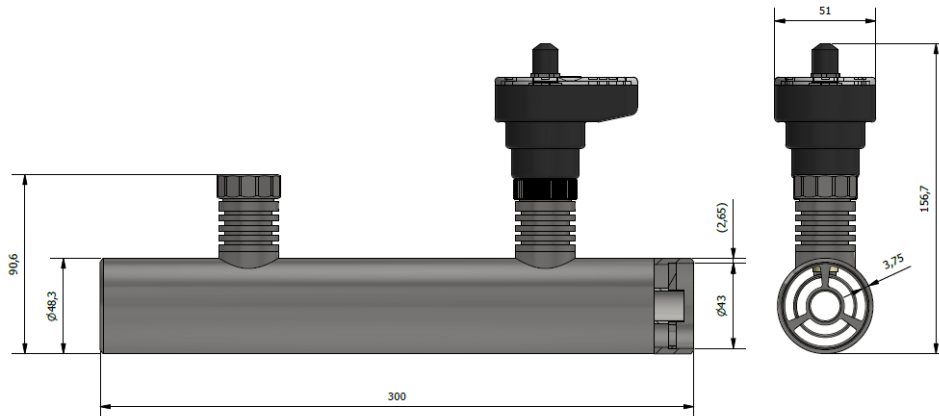


Dimensional drawing for all variants

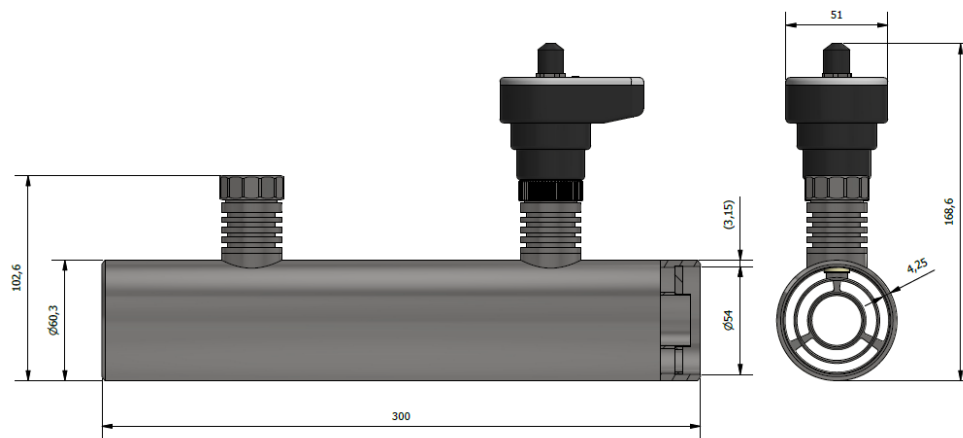




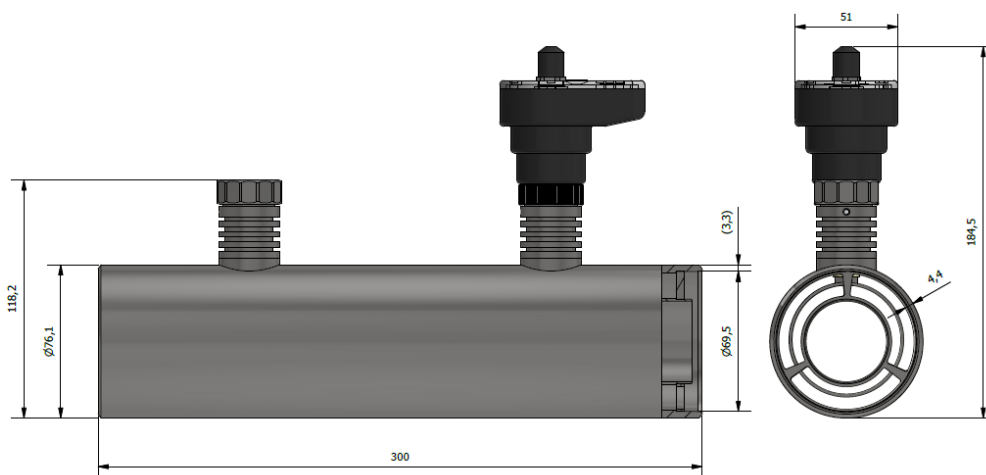
DN32 (1-1/4")  
WEIGHT: 1,8 kg



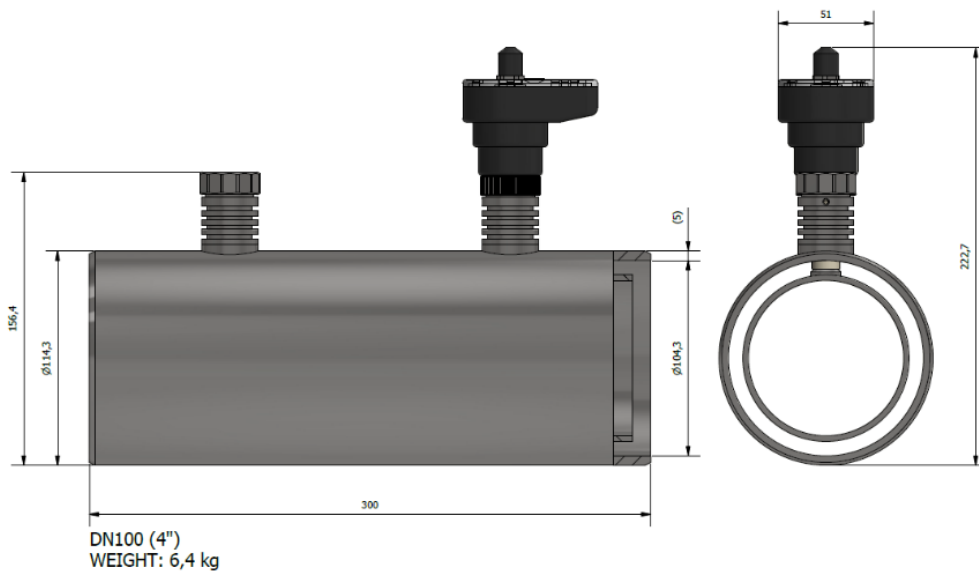
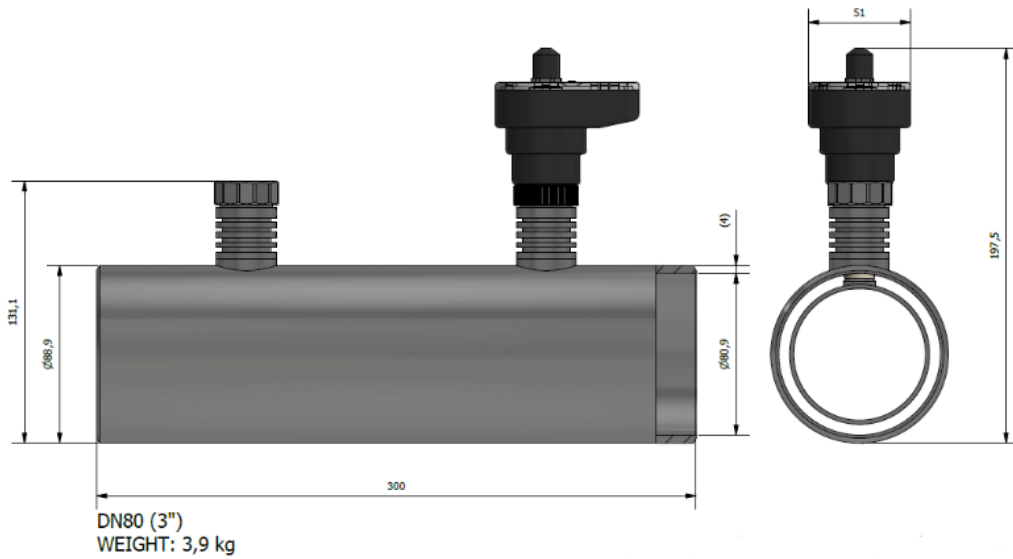
DN40 (1-1/2")  
WEIGHT: 2,1 kg



DN50 (2")  
WEIGHT: 2,7 kg



DN65 (2-1/2")  
WEIGHT: 3,6 kg



For any inquiries or further information, please don't hesitate to contact us at [info@hbproducts.dk](mailto:info@hbproducts.dk)

**HB Products A/S**  
Bøgekildevej 21  
DK-8361 Hasselager  
Phone: +45 87476200  
[www.hbproducts.dk](http://www.hbproducts.dk)