

**Differential Pressure Sensor Water**

Active sensor (0...10 V) for measuring the differential pressure in liquid or dry media. Various pressure ranges, rugged NEMA 4 / IP65 and compact stainless steel housing. Optional stainless steel or brass pipe connection adaptors also available.


**Type Overview**

| Type      | Measuring Range Pressure | Output Signal Active Pressure | Overpressure Limit | Overpressure Limit Note | Maximum System Pressure |
|-----------|--------------------------|-------------------------------|--------------------|-------------------------|-------------------------|
| 22WDP-111 | 0...1 bar                | DC 0...10 V                   | 6 bar              | Single-sided            | 21 bar                  |
| 22WDP-112 | 0...2.5 bar              | DC 0...10 V                   | 6 bar              | Single-sided            | 21 bar                  |
| 22WDP-114 | 0...4 bar                | DC 0...10 V                   | 16 bar             | Single-sided            | 21 bar                  |
| 22WDP-115 | 0...6 bar                | DC 0...10 V                   | 16 bar             | Single-sided            | 21 bar                  |

**Technical Data**

|                        |                              |   |
|------------------------|------------------------------|---|
| <b>Electrical data</b> | Power Supply DC              | 15...24 V, $\pm 10\%$ , 0.37 W  |
|                        | Power Supply AC              | 24 V, $\pm 10\%$ , 0.9 VA   |
|                        | Electrical connection        | Plug for wire 0.5...1.5 mm <sup>2</sup>   |
|                        | Cable entry                  | Angle plug according to DIN 43650, construction A                               |
| <b>Functional data</b> | Output signal active note    | Voltage output: min. 2 k $\Omega$ load  |
|                        | Mechanical connection        | pressure connector: G1/4"   |
|                        | Mounting                     | installation position unrestricted  |
|                        | Media                        | Water   |
| <b>Measuring data</b>  | Measured values              | Differential pressure   |
|                        | Measuring media              | Air and non-aggressive gases  |
|                        | Accuracy pressure            | $< \pm 1\%$ of measuring range (@ -5...75 °C)                                   |
| <b>Materials</b>       | Housing seal                 | EPDM  |
|                        | Housing                      | Bottom Part: Stainless steel 1.4305<br>Top Cover: Aluminum pressure die casting |
|                        | Medium wetted parts          | Stainless steel 1.4301, Ceramic   |
| <b>Safety data</b>     | Ambient temperature          | -10...50 °C [15...120 °F]   |
|                        | Medium temperature           | -10...80 °C [15...175 °F]   |
|                        | Protection class IEC/EN      | III Protective extra-low voltage (PELV)   |
|                        | Protection class UL          | UL Class 2 Supply   |
|                        | EU Conformity                | CE Marking  |
|                        | Degree of protection IEC/EN  | IP65  |
|                        | Degree of protection NEMA/UL | NEMA 4  |
|                        | Quality Standard             | ISO 9001  |
|                        | Weight                       | 0.55 lbs  |

**Safety notes**


The installation and assembly of electrical equipment should only be performed by authorized personnel.

This device has been designed for use in stationary heating, ventilation and air conditioning systems and must not be used outside the specified field of application. Unauthorised modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten human, animals or assets.

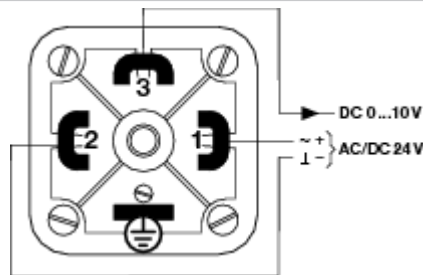
Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

**Accessories**

| Optional Accessories | Description   | Type       |
|----------------------|---|------------|
|                      | Pipe connector brass, 2 pcs., Pipe 6 mm to G 1/4" (external thread)           | A-22WP-A04 |
|                      | Pipe connector stainless steel, 2 pcs., Pipe 6 mm to G 1/4" (external thread) | A-22WP-A06 |
|                      | Pipe connector brass, 2 pcs., Pipe 8 mm to G 1/4" (external thread)           | A-22WP-A08 |
|                      | Pipe connector stainless steel, 2 pcs., Pipe 8 mm to G 1/4" (external thread) | A-22WP-A10 |

**Wiring diagram**

**Dimensions**
