

# P115

Nöding

Messtechnik



## Datasheet OEM Pressure Transmitter P115

### PERFORMANCE FEATURES

- Dry ceramic sensor
- Accuracy  $\leq 0,5\%$
- Smallest measuring range: 0...100 mbar
- Largest measuring range: 0...300 mbar
- Various electrical connections
- Analog output: 4...20 mA, 2-wires

### AREAS OF APPLICATION

- Viscous and pasty media
- Liquid media
- Gaseous media
- Aggressive media
- Bubbling-through method

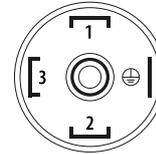
The model P115 is an application-optimized transmitter that is especially suitable as an OEM component. Various electrical connection options allow for easy integration. The protection class IP 67 reliably prevents dust and water from entering the device. The ceramic sensor operates according to the piezoresistive principle and in combination with the stainless steel housing forms a robust and compact sensor. Our modular design concept provides a wide variety of products. Feel free to contact us if you need a customization that is not listed in this datasheet.

## TECHNICAL DATA

| Measuring range               |  |
|-------------------------------|--|
| Pressure range                | See table "Measuring ranges" others on request       |
| Output                        |  |
| Analog output                 | 4...20 mA 2-wires                                    |
| Power supply                  |  |
| 20 mA output                  | 9...30 V DC  |
| Signal characteristics        |  |
| Accuracy                      | $\leq \pm 0,5 \% \text{ FS @ } 25^\circ\text{C}$     |
| Long term stability           | $\leq \pm 0,5 \% \text{ FS/Year}$                    |
| Response time                 | 200 ms - others on request                           |
| Switch-on time                | < 1 s  |
| Temperature coefficient       |  |
| Zero                          | $\leq \pm 0,03 \% \text{ FS/Kelvin}$                 |
| Span                          | $\leq \pm 0,02 \% \text{ FS/Kelvin}$                 |
| Temperature ranges            |  |
| Medium temperature            | -25...100 °C   |
| Surrounding temperature       | -25...80 °C  |
| Storage temperature           | -40...85 °C  |
| Electrical protections        |  |
| Short-circuit resistance      | Permanent  |
| Reverse polarity protection   | Protection against reverse polarity, but no function |
| Electromagnetic compatibility | Interference emissions and immunity acc. to EN 61326 |
| Wetted materials              |  |
| Process connection            | Stainless steel 1.4404                               |
| Sensor                        | Ceramic $\text{Al}_2\text{O}_3$                      |
| Sensor seal                   | FPM (Viton), NBR, EPDM, FKKM (Chemraz / Kalrez)      |
| Surroundings                  |  |
| Protection type               | IP 67  |
| Exemplary weight              |  |
| P115-400-G110 (figure p. 1)   | Approx. 200 g  |

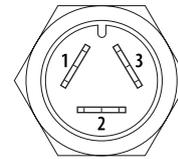
## ELECTRICAL CONNECTION

Connector  
EN 175301-803A



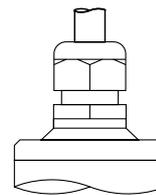
4...20 mA 2-wires  
PIN 1: Signal +  
PIN 2: Signal -

Quickon-Connector



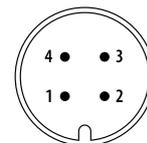
4...20 mA 2-wires  
PIN 1: Signal +  
PIN 2: Signal -

Cable connection



4...20 mA 2-wires  
red: Signal +  
black: Signal -

M12 Connector



4...20 mA 2-wires  
PIN 1: Signal +  
PIN 3: Signal -

## LOAD

