

KLAY-INSTRUMENTS

INSTRUCTION MANUAL FERRMIC

WARNING!

Before installing the "FERRMIC" read the warnings and instructions on page 4. For personal and system safety, and for optimum performance, make sure you thoroughly understand the contents before installing.

DESCRIPTION

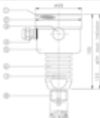
The FERRMIC is a solid state, 40 Bar stainless pressure transmitter based on a ceramic pressure cell with a very high burst pressure. The amplifier system is based on a single integrated circuit, which ensures a perfect linearity in the 4-20 mA output. Also the transmitter is fully temperature compensated. The FERRMIC is made for pressure applications on liquids, gases and vapours. Zero and span are internally adjustable in wide ranges. A local digital indicator is available option.



OPERATION FERRMIC

The FERRMIC has no oil filling system, as the process pressure goes directly to the ceramic pressure cell. The voltage signal from the ceramic cell goes directly to the integrated circuit that converts this signal into 4-20 mA. Therefore the FERRMIC has a perfect linearity. The FERRMIC is fully temperature compensated, which means that various process temperatures have no effect on the accuracy of the output signal.

DIMENSIONS FERRMIC 1/2 BSP and 1/2 DIN (G1/2)



PART DESCRIPTION

| PART DESCRIPTION | MATERIAL |
|---|----------|
| 1. Cover | SS 304 |
| 2. O-ring | EPDM |
| 3. Winding | PA |
| 4. PCB-Cable Board | PA |
| 5. Electronics Housing | SS 304 |
| 6. Flut | SS 316 |
| 7. Sensor (pressure cell) | Ceramic |
| 8. Process connection 1/2 BSP (G1/2) acc. to DIN 15208 | SS 316 |

Note: The Sensor is sealed with an O-ring (VITON).
Other materials can be delivered on request.

BAROMETRIC REFERENCE

The FERRMIC is in fact a so called "relative transmitter" which means that barometric changes will not affect the zero (4 mA). The venting nipple (3) is placed at the side of the electronics housing and is the barometric reference to atmospheric. The venting nipple must be kept clean.