



CNC4200-MT3

isurki
Instrumentación y control

4-20 mA Level & Pressure Transmitter



CUSTOMIZATION

- ✗ Customer:
- ✗ Shipment date:
- ✗ Serial number:
- ✗ Range: 0 to xxx m.w.c.
- ✗ Maximum pressure: xx bar
- ✗ Cable length: xxx m.

DESCRIPTION

The *CNC4200* is based on a ceramic die and measures the hydrostatic pressure through a capacitive effect. A vented tube inside the cable assures the compensation of the atmospheric pressure variations. It can be installed inside the water or threaded to process using its 1/4" G connection (optional).

MATERIALS AND WEIGHTS

- ✗ body and cell: AISI 316L. 300 g. Ø22
- ✗ diaphragm: Al₂O₃ (96%)
- ✗ cable: poliethilene. Can be used in food industrie (94/62/EU). 63 g/m. Outside Ø: 6 mm. Length customized to application requirements

METROLOGICAL CHARACTERISTICS

- ✗ Available pressure range (P, bar): any range between 0-0'1 up to 0-22 bar
- ✗ Height equivalence (H, m.w.c.): 0-1 up to 0-220 m.w.c. ($H = P \times 10'21555$ at 20 °C)
- ✗ Tipycal uncertainty: $< \pm 0'25\%$ f.s.
- ✗ Long term establiity: $< 0'1\%$ f.s. / year
- ✗ Switch on time: < 10 ms.
- ✗ Response time to raise from 10 to 90% f.s. $\cong 1$ ms.
- ✗ Compensated temperature working range: -20 to +80 °C.
- ✗ Temperature offset drift: $\pm 0'05\%$ f.s. / 10 °K
- ✗ 89/336/EC CEM approvals available: L.G.A.I. n. 99007853.
- ✗ 9 points calibration certificate (optional).

ELECTRICAL CHARACTERISTICS

- ✗ output signal and consumption: 4 to 20 mA, two wires, ratiometric to the measured range.
- ✗ supply (V_{cc}): between 8 and 30 Vdc, filtered and regulated.
- ✗ maximum load: $R_{Lmax} = (V_{cc} - 8) / 0'02$
- ✗ cable resistivity: 88'6 Ω/Km
- ✗ IP66 surge protection unit included (AT30E), with 1 ns. response time, 3 stages, 1500 w.