

LEVEL + TEMPERATURE COMBINED

Level measurement instrument in stainless steel 1.4571 with integrated temperature sensor.

CHARACTERISTICS

- Analog level signal 4-20 mA, two-wire transmitter
- Max. 4 level switches (bistable) pnp-output. Control elements: - reed contacts or magnet sensors
- Analog temperature signal 4-20 mA, two-wire transmitter
- Temperature switches: - pnp-output or thermostat for switch action

ADVANTAGES

- Reductions of costs: max. 4 different measurements in one measuring instrument
- Economy of time, of storage costs, of assembly costs etc.

AREAS OF APPLICATION

IMB combined measuring instruments are suitable even for rough environments and are applicable in the following industries: plant engineering, off-shore, machine construction, power plants, chemical industries, ship-building, biochemical industries, food industries, petrochemical industries, pharmaceuticals etc

MODEL

TN 210



TECHNICAL SPECIFICATIONS

Analog Level Signal	
Analog output	4-20 mA
Supply voltage	12 VDC...32 VDC
Accuracy	12 mm
Faults detection	Short-circuit < 4 mA, wire break > 22 mA
Temperature range	-30°... +120°C, > 120°C on request
Level Switch Points	
Switch elements	Reed contacts
Switch function	opener / closer or change-over switch
Max. power	
Opener / Closer	230 VAC; 100 VA; 1A AC 230 VDC; 50 W; 0,5A DC
Change-over switch	230 VAC; 40 VA; 1A AC 230 VDC; 20 W; 0,5A DC
Temperature range	-30°... +180°C, > 180°C on request
TEMPERATURE SWITCH POINTS WITH PNP-OUTPUT	
Temperature sensor	PT100
Supply voltage U _v	12 VDC ... 32 VDC
Output	max. 2 switch points, pnp-output (open collector)
Closer	jump from OV auf U _v
Opener	jump from U _v auf OV
Accuracy	≤0,5°C
Hysteresis	1,5°C
Temperature range	-50°C...+250°C, > 250°C on request
TEMPERATURE SWITCH POINTS , THERMOSTAT FOR SWITCH ACTION	
Nominal voltage (50-60 Hz)	250 V
Nominal current	max. 2,5 A ; min. 50 mA
Switch function	opener or closer
Accuracy	± 0,5°C
Temperature range	+50°C ... +180°C, stepwise in 5°C-steps
ANALOG TEMPERATURE SIGNAL	
Nominal voltage (50-60 Hz)	250 V
Temperature sensor	Pt100
Analog output	4 - 20mA
Supply voltage	12 VDC ... 32 VDC
Accuracy	≤0,5°C
Linearity error	<0,1%
Faults detection Short-circuit	< 4 mA, wire break > 22 mA
Temperature range	-50°C...+250°C, > 250°C on request