

Turbidity Meter

Infrared back-pressure method
of measurement



- Measuring range: 0-100%
- Repeatability: $\leq 1\%$
- p_{\max} : 10 bar, t_{\max} : 125°C
- Process connection: G 1/2
- Food-compatible materials, hygienic according to EHEDG
- Analogue output: 4-20 mA
- Good chemical resistance
- CIP-compliant



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Model:
LAT-N3



Description:

The KOBOLD turbidity meter LAT-N3 is used for measuring slightly turbid (visible) to very turbid media.

The device is very compact with transmitter and receiver fitted in a G 1/2 process connection. The back-pressure method of measurement allows flush mounting at the front with a G 1/2 sleeve. When connected with the KOBOLD food-compatible sleeve (for example type LZE-NZO) the measuring point is hygienic and free of cavities (EHEDG report).

The complete evaluating electronics has been integrated in the connecting head in LAT-N3. Among the benefits for the user are low installation costs, negligible wiring and good noise immunity. An analogue output (4-20 mA) and a switching output that can be adjusted on site are available. The turbidity value (0-100%) is displayed on the built-in digital display. The necessary settings can be carried out and the setpoint for the switching output can be set with the 3 internal buttons.

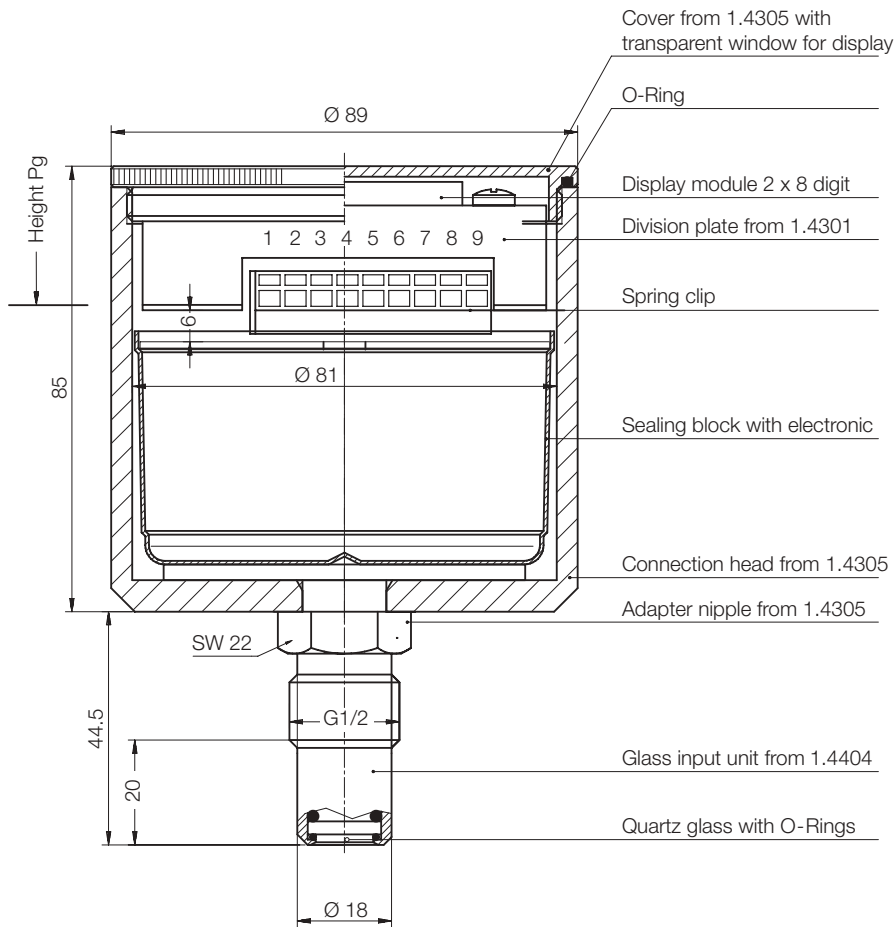
Application Examples:

- Phase separation of product/water
- Phase separation of product/product
- Quality control
- Determination of the fat content of milk products

Technical Details:

| | |
|------------------------|--|
| Method of measurement: | infrared backscattering |
| Measuring range: | 0-100 % |
| Repeatability: | ≤ 1.0 % |
| Process temperature: | 0 to +125 °C |
| Ambient temperature: | 0-60 °C |
| Storage temperature: | -20 °C to +80 °C |
| Humidity: | 0-95 % Non-condensing |
| Max. pressure: | 10 bar |
| Material body: | stainless steel 1.4305 |
| Material sensor: | PEEK, transparent quartz |
| Process connection: | G 1/2 |
| Wavelength: | 860 nm |
| Display: | LCD, 2x8-digit Back-Lit |
| Analogue output: | 4-20 mA |
| Load: | max. 500 Ω |
| Switching output: | active output, 25 mA, short-circuit-proof voltage=U _B |
| Supply voltage: | 18-36 V _{DC} , approx. 150 mA |
| Protection type: | IP 67 |
| Noise immunity: | IEC 801-4 interference level 3 |
| Weight: | approximately 1.4 kg |

Dimensions:



Order number: LAT-N3

Please refer to our brochure »L1« ...



...for food-processing technology