



## Turbidity Meter

Infrared transmitted light (absorption) technique



measuring  
•  
monitoring  
•  
analysing



- Measuring range: 0-100%
- Repeatability:  $\leq 5\%$
- $p_{\max}$ : 10 bar,  
 $t_{\max}$ : 90°C, short-time 120°C
- Different connections and nominal sizes
- Food-compatible materials, hygienic according to EHEDG and 3-A
- Analogue output: 0/4-20 mA
- High chemical resistance
- CIP-compliant



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**Model:**  
LAT-N2



### Description

Turbidity measurement is an indispensable tool in the automation of industrial processes in process engineering and in environmental protection. The KOBOLD turbidity meter LAT-N2 has been developed for areas, where light (visible) to strong turbidities are relevant for control. The simple robust fitting, made of stainless steel, along with the well protected evaluating electronics can be easily integrated into a new or existing plant. The hygienic design meets the demands of food process industry. The analogue output signal (0/4-20 mA) allows different evaluation devices, such as digital indicators, limit value controllers or a PLC to be connected.

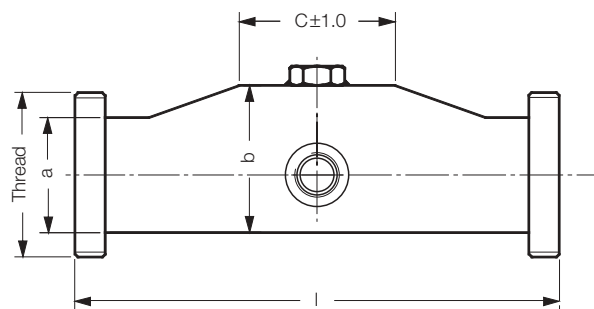
### Application Examples

- Process control
- Dosing applications
- Phase separation of milk/water, product/water, waste water/water, etc.
- Waste water

### Technical Details

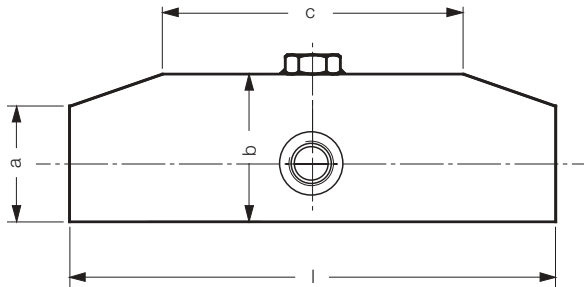
Method of measurement: infrared transmitted light  
 Measuring range: 0-100 %  
 Repeatability: ≤ 5 %  
 Process temperature: 0-90 °C, short-time 120 °C  
 Ambient temperature.: 0-50 °C  
 Storage temperature: -20 to +70 °C  
 Humidity: 0-95 % rH  
 Non-condensing  
 Max. pressure: 10 bar  
 Body material: stainless steel 1.4301 (V2A)  
 Screw-in sleeve material: 1.4571 (V4A) with silica glass  
 Process connections: DN 40, 50, 65, 80, 100 sanitary connection acc. DIN 11851 pipe thread (hygienic) acc. DIN 11864 weld-on ends (EHEDG, 3-A-agreed)  
 Wave length: 880 nm  
 Display: height of digits 12.7 mm  
 Analogue output: 0/4-20 mA, overrange limit 25 mA  
 Load: max. 500 Ω  
 Supply voltage: 24 V<sub>DC</sub>, approx. 100 mA  
 Protection: IP 65  
 Noise immunity: IEC 801-4 interference level 3  
 Weight: approximately 2.6 kg

### Dimensions (sanitary connection)



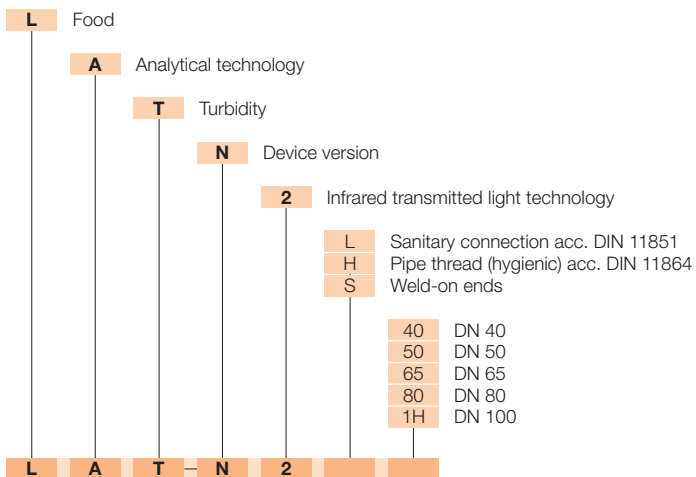
Nominal size process connection	a	b	c (mm)	l (mm)	Thread
DN 40	DN 40	DN 65	60	250	DIN 405
DN 50	DN 50	DN 65	74	230	RD 78x1/6
DN 65	DN 65	DN 80	88	250	RD 95x1/6
DN 80	DN 80	DN 80	-	250	RD 110x1/6
DN 100	DN 100	DN 100	-	250	DIN 405

**Dimensions (weld-on ends)**



Nominal size process connection	a	b	c (mm)	l (mm)
DN 40	DN 40	DN 65	86	230
DN 50	DN 50	DN 65	142	230
DN 65	DN 65	DN 80	168	250
DN 80	DN 80	DN 80	-	250
DN 100	DN 100	DN 100	-	250

**Type code**



# KOBOLD System Construction

Planing, mounting and commissioning  
with cooperation partners



Cosmetic and  
detergent industry



- Systems for manufacturing of  
parfum oil and odoriferous matter,  
teflon lined mixing and  
solvent systems,  
weight and batching systems with  
pneumatic measuring transmission,  
complete tank depot systems  
c/w piping
- Dosing systems for liquid  
components for the manufacturing  
of shampoos, rinsing medias,  
detergents, baths liquid additions  
deodorizing liquids aso.

