



MAIN CHARACTERISTICS

Product Type:	Density meter based on the oscillating U-tube principle with preamplifier
Application:	Density and concentration measurement of liquids
Measuring accuracy:	up to $\pm 0.01\%$ ($\pm 0.1 \text{ kg/m}^3$) of measured value
Ex-approval:	Zone 1
Process temperature:	-40°C up to 100°C
Process pressure:	up to max. 100 bar depending on process connection
Housing material:	stainless steel (1.4571)
Wetted parts:	special alloy of NiFeCr (tuning fork), stainless steel (connections)
Power supply:	NAMUR
Output / Display:	NAMUR (original frequency) and Pt100 for connection to a flow computer e.g. UR06
Process connection:	Flange acc. to DIN or ANSI
Special features:	Instrument version without seals, suitable for custody transfer measurements

MEASUREMENT RANGE

Flow rate	0.3 – 10 l/min
Density range	400 up to 3000 kg/m^3
Calibration range	400 up to 1450 kg/m^3
Repeatability	$\pm 0.005\%$ ($\pm 0.05 \text{ kg/m}^3$)

When installing in the bypass, ensure that there is sufficient flow in the unit so that the liquid sample in the unit is updated quickly enough (recommended approx. 0.3 l/min or approx. 0.01 bar differential pressure).

PROCESS CONNECTION

G $\frac{1}{4}$ acc. To ISO 228

Flange DN 10 PN 40 (DIN 2545), DN 10 PN 100 (DIN2547)

ANSI 150 ($\frac{1}{2}$ "), ANSI 300 ($\frac{1}{2}$ "), ANSI 600 ($\frac{1}{2}$ ")

OUTPUT SIGNALS

Connection: in 2-wire technology

4-20 mA for operating density, reference density (temperature corrected to reference temperature 15°C or 20°C) or concentration (% mass, % volume, Brix, Bé)

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EXAMPLES OF APPLICATION

- direct operating density or reference density measurement of non-corrosive liquids (incl. liquefied gases)
- Concentration measurement of 2-substance mixtures

Further information and product variants are available on request

