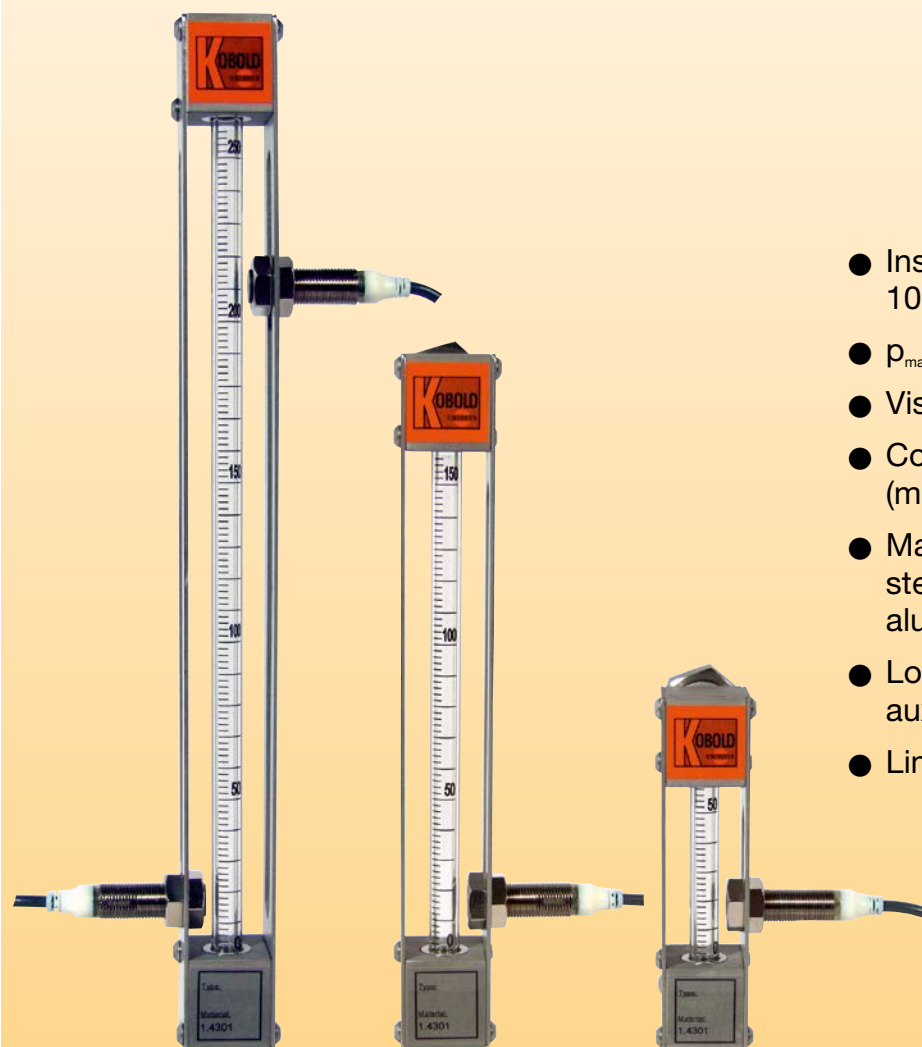


NZJ



- Installation length: 100 ... 540 mm
- p_{max} : 16 bar; t_{max} : 100 °C
- Viscosity: max. 50 mm²/s
- Connection: G $\frac{1}{4}$, $\frac{1}{4}$ " NPT (male) union nut
- Material: stainless steel (1.4301/1.4404) / aluminium
- Local indication without auxiliary power
- Limit contacts



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Description

The NZJ type glass tube level indicator is applicable for the indication of liquid level in small standing or lying round containers used in pharmaceutical and chemical industries.

The loads occurring at the installation are absorbed by the outer armature, thus the glass tube is protected against breaking. The outer armature also protects the glass tube against the mechanical impacts that may occur following the installation.

Installation length means the distance between the horizontal centre lines of the two threaded stubs, that is minimum 100 mm, and maximum 540 mm.

The bottom, and top sealing of the glass tube is by two O-rings each, the material of which is to be chosen to be chemically compatible with the liquid measured. Standard sealing material is NBR, whereas FPM, EPDM or PTFE are available on request.

The level indicator may be furnished with capacitive level sensors as requested ATEX version, which monitor the Min./Max. level or any level along the scale. The scale can be printed on a foil and to be attached to the glass tube.

Areas of Application

- Pharmaceutical
- Chemical
- Water treatment
- Laboratories
- Small storage tanks for liquids on any field
- Gravity tanks
- Capacity tank

Technical Details

Installation position:	vertical
Installation length:	100 ... 540 mm
Measuring length :	60 ... 500 mm
Material:	stainless steel (1.4301/1.4404)/Alu
Gasket:	NBR, FPM, EPDM, PTFE
Process connection:	G $\frac{1}{4}$, $\frac{1}{4}$ " NPT (male) union nut
Scale resolution:	2 mm on stick foil
Max. pressure:	16 bar
Medium and ambient temperature:	-25 ... +100°C (-25 ... +70°C with switch)
Density:	any (no float used)
Max. viscosity:	50 mm ² /s

Limit contacts

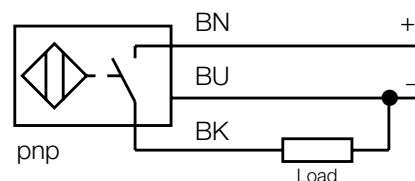
Type: capacitive sensor (without ATEX)

Operating voltage U_B :	10 ... 36 V _{DC}
Short-circuit protection:	pulsing
Voltage drop at U_D :	≤ 2.5 V
Operating current I_L :	0 ... 100 mA
No-load supply current I_0 :	≤ 12 mA
Switching indication:	LED, yellow
Potentiometer:	sensitivity adjustment
Ambient temperature:	-25 ... +70°C (-13 ... 158°F)
Connection type:	cable PUR, 2 m
Core cross-section:	0,34 mm ²
Protection:	IP 65

Type: capacitive sensor (with ATEX)

Ambient temperature:	-25 ... +70°C
Operating voltage:	10 ... 30 V _{DC}
DC rated current:	≤ 200 mA
No-load current I_0 :	≤ 15 mA
Residual current:	≤ 0,1 mA
Output function:	3-wire, N/O contact, PNP
Voltage drop at I_0 :	≤ 1.8 V
Connection type:	cable PUR, 2 m
Protection:	IP 67
ATEX version:	II 3G Ex nA IIC T4 Gc II 3D Ex tc IIIC T91°C Dc

Wiring diagram





Materials

Code	Tube	Body	Connection	Seal	Side Flat
NZJ-A	borosilicate glass	aluminium	1.4404	NBR	1.4301
NZJ-K		stainless steel 1.4301		FPM	
NZJ-S		stainless steel 1.4404		FPM	

Order Details (Example: NZJ-K 1 1 G2 0 0)

Model/Version	Measuring scale	Seals	Connection	Switch	Options
NZJ-A = aluminium NZJ-K = st. steel 1.4301 NZJ-S = st. steel 1.4404	0 = without 1* = plastic foil on measuring tube (2 mm division) 2* = plastic foil on measuring tube (% division)	1 = FPM 3 = EPDM 4 = NBR 5 = PTFE	G2 = G ¼ male N2 = ¼" NPT male	0 = without switch 1 = 1 x N/O 2 = 2 x N/O A = 1 x N/O ATEX B = 2 x N/O ATEX	0 = without Y = customer specification

* Installation length »L« to be specified in writing (scale length = L-40 mm).
 0% and 100% level are relative to the bottom and top connection.

Dimensions [mm]

