

Easy to use and reliable

76 A with NB 220

Thermal overfill prevention device, fulfilling the requirements of the German Water Resources Act (WHG)

The ideal solution for overfill prevention of your tanks for water-polluting liquids. With its easy installation and the option of connecting acoustic or optic signals directly to the transducer the overfill prevention has proven its reliability for years.



Easy to get started

» Easy installation with a 2-wire terminal to the transducer, fitted independent of polarity. The sensor requires no maintenance after the installation, therefore there are also no hidden costs!

Durable

» There is no abrasion since there are no moving parts. A long life time is guaranteed with consistent reliability.

Highly dependable

» The overfill prevention device fulfils the requirements of the German Water Resources Act (WHG).

Installed and tested in the following applications

» Full notifications in fuel oil tanks, day oil tanks, tall tanks, oil containers, sumps or bottles.

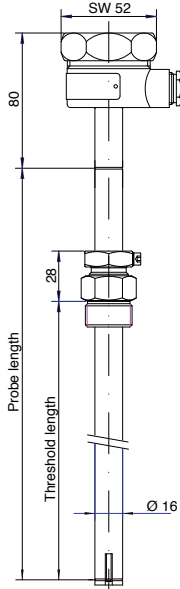
76 A with NB 220 in brief

- Proven millions of times in many applications
- Approved as overfill prevention device
- No moving parts
- Easy installation
- Permanent self-testing of the sensors
- Maintenance-free
- The ideal solution for containers containing water polluting liquid.

Typ 76

Technical data

Name	76	
Process temperature	Standard: -25 °C to +50 °C	High temperature: -25 °C to +80 °C
Process pressure	0 bar to 2 bar	
Immersion switch delay	< 2 s	
Heating-up time	at -20 °C < 2 min. at +60 °C < 15 sec.	
Material		
Connection housing	Brass	
Wetted parts (without test prod)	Brass; Spring steel, zinc-plated Solder: L-Sn 40 Pb; Vulkolan	
Test prod	Linear polyester; stainless steel 303 to 316 Ti	
Casing protection class	IP67	
Cable terminal	Cable gland	
Probe tube (Outer Ø)	24 mm	
Probe length	100 to 3,000 mm	
Gland	G ¾"	
	Overvoltage protection (76 A, 76 N)	



Designs

76 A	76 C	76 N
Our standard device for all applications, easy to install with a reverse polarity protected cable.	The version with a permanently installed cable, for applications where there is no space for the enclosure, or for OEM applications with a pre-configured cable.	All parts exposed to liquid are manufactured from stainless steel 316 Ti. The enclosure is nickel plated; this means the sensor is suitable, for example, for AdBlue.

Typ 76

Tried and tested in the following liquids:

1. For flammable, water-polluting liquids

- Diesel/Biodiesel
- EL fuel oil
- Used transmission and engine oils
- 1-hexanol
- Nitrobenzene
- Ethyl acetoacetate
- 1,2-dichlorobenzene
- 2,4-dimethylaniline (N,N-dimethylaniline)
- Acrylic acid-2-ethylhexyl ester (2-ethylhexyl acrylate)
- Cyclohexyl acetate
- Benzaldehyde
- Diethyl oxalate
- Methyl acetate
- n-octanol (n-octyl-alcohol)
- Aniline

2. For non-flammable water-polluting liquids

- Unused engine, transmission and hydraulic oils
- Transformer oils
- Vegetable oils
- Anti-freeze liquids
- Oil-water mixtures (e.g. drilling and lubricating oils)
- Detergent water mixtures
- Per- and trichloroethylene
- Urea solution

Order numbers

Name	Description	Probe length	Order code
76 A			
	Standard	100 mm	904372
	Standard	200 mm	904389
	Standard	300 mm	904396
	Standard	400 mm	904402
	Standard	500 mm	901388
	Standard	600 mm	904419
	Standard	700 mm	904426
	Standard	800 mm	904433
	Standard	900 mm	904440
	Standard	1,000 mm	904457
	Customer-specified length (with statement of the length)		904365
76 C			908332
	Compact: Probe length 500 mm, cable length 3 m		
76 N			901393
	Stainless steel 316 Ti: for use in Ad Blue, probe length 500 mm		

Knows when it's enough.

NB 220

Transducer

Installing this stand-alone device is very easy. We have the right solution for you, whether as a simple relay output for connection of an PLC (NB 220 H), as a stand-alone solution with an

additional integrated optical and acoustical alarm (NB 220 QS and NB 220 QSF), or even with switched 230 V to directly connect an electrical consumer as i.e. a pump (NB 220 QS).



Technical data

Name	NB 220 H	NB 220 QS	NB 220 QSF
Number of connections	1 Level Detector		
Auxiliary power	230 V _{AC} ; 115 V _{AC} ; 24 V _{DC} ; 24 V _{AC}		
Power input	max. 6 W or 4 VA		
Ambient temperature	-25 °C to +60 °C		
Casing protection class	IP40		
Dimensions	H 110 x W 51 x D 110 [mm]	H 150 x W 75 x D 110 [mm]	H 163 x W 97 x D 62 [mm]
Outputs	Potential-free changeover contact: AC: U ≤ 250 V, I ≤ 4 A, P ≤ 100 VA; DC: U ≤ 250 V, I ≤ 250 mA, P ≤ 50 W	Switched power supply (NO)	Potential-free changeover contact: AC: U ≤ 250 V, I ≤ 4 A, P ≤ 100 VA; DC: U ≤ 250 V, I ≤ 250 mA, P ≤ 50 W
Output 1	not acknowledgeable	50 W, e. g. pump, not acknowledgeable	not acknowledgeable
Output 2	–	100 W, e. g. lamp, not acknowledgeable	acknowledgeable
Output 3	–	50 W, e. g. external horn, acknowledgeable	–
Input	–	Connection for external potential-free acknowledge button	
Acoustic signal	–	integrated horn	
Acknowledge button	–	integrated acknowledge button	
Test button	–	–	available
Option	Dry-running protection		

Order numbers

Name	Description	Order number	
		230 V _{AC}	24 V _{DC} / 24 V _{AC}
NB 220 QSF	Overflow prevention device	908400	908508
NB 220 QS	Overflow prevention device	902330	904501
NB 220 H	Overflow prevention device	902279	902293
NB 220 QS T	Dry-running protection	904310	n.A
NB 220 H T	Dry-running protection	902309	902323

115 V_{AC} on request.