

Dial type level gauge LBA

LBA / Lemon™ / Ex

Application

Float gauges LBA are designed to measure level of liquids in storage tanks, including measuring in explosive environments.

The dial gauge is a mechanical-electronical instrument with modular construction which allows to create the whole range of different types as required by customer needs.

Functional description

- selectable measuring range
- local representation of level by circle dial
- selectable head type
- selectable output signal
- optional up to 4 limit microswitches
- Exi/Exd version
- selectable material of wetted parts
- selectable float type
- selectable connection - flange, threaded joint ...

Technical data

- measuring range up to 15 m
- circle dial with two pointers
- head LBH170 - \varnothing 170mm/ h 220mm
LBH250 - \varnothing 250mm/ h 175mm
- output 100 ohm resistance
R/I 4-20 mA
R/U 0-10 V
- 4 limit microswitches
- Ex version according to EU 94/9/ES ATEX
- material version SS/PP/PVDF
- floats for mass density of liquid from 0.4kg/dm³
- standard connection - flange DN50 PN16
- temp. at the measurement point -150 až 350°C
- housing protection IP65

Certification

- EC declaration of conformity



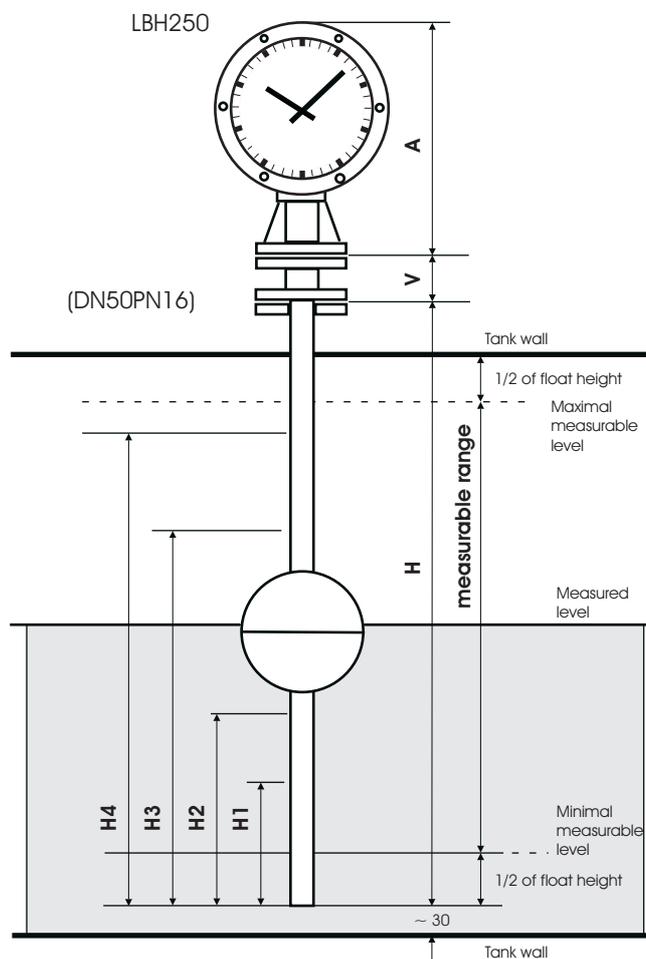
Head type



LBH170 Lemon

LBH250

Overall dimensions



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Specification table

LBA-	XX.	X	X.	X	X		
	01.	X	X.	X	X	up to 5 m	dial local indication range
	02.	X	X.	X	X	up to 10 m	
	03.	X	X.	X	X	up to 20 m	
		0	X.	X	X	0	number of limit microswitches
		2	X.	X	X	2	
		4	X.	X	X	4	
		0.	X	X		without	limit microswitches
		1.	X	X		with	
			3	X		standard environment	standard environment version
			9	X		standard environment	according to the agreement
				0		standard environment	no electrical output
				1		standard environment	output signal 4 to 20 mA, two wire
				2		standard environment	output signal (0) 4 to 20 mA, four wire
				3		standard environment	output signal 0 to 10 V, four wire
				4		standard environment	output signal 0-100R
				5		standard environment	output signal 0-1000R
				9		standard environment	according to the agreement

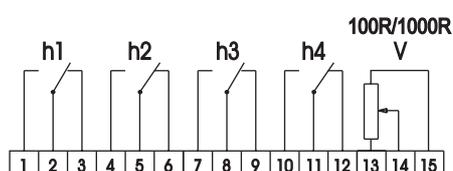
Integral part of the order is also filled-in questionnaire available separately.

Specification table for Ex version

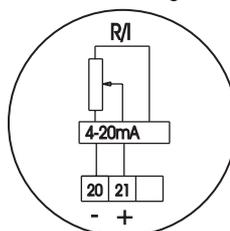
LBA-	XX.	X	X.	X	X.	Ex		
	01.	X	X.	X	X		up to 5 m	dial local indication range
	02.	X	X.	X	X		up to 10 m	
	03.	X	X.	X	X		up to 20 m	
		0	X.	X	X		0	number of limit microswitches
		2	X.	X	X		2	
		4	X.	X	X		4	
		0.	X	X			without	limit microswitches
		1.	X	X			with	limit microswitches EExi
		2.	X	X			with	limit switches EExi
		3.	0	X			with	limit microswitches EExd
				1	X		zone 1	Head version for zone 1 (EExi built-in components are connected to external explosion proof equipment)
				2	X		zone 2	Head version for zone 2 (EExi built-in components are connected to external explosion proof equipment)
					0		zone 1	no electrical output
					1		zone 1	output signal 4 to 20 mA, two wire EExi
					2		zone 2	output signal 4 to 20 mA, four wire EExi
					3		zone 1	output signal 4 to 20 mA, two wire EExd
					4		zone 1	output signal 0-100R or 0-1000R EExd

Integral part of the order is also filled-in questionnaire available separately.

Schematic diagram



Two wire design



Four wire design

