



LEVEL MEASURING DEVICE

PRODUCT SERIES VIBRATING PADDLE MBA700



The level measurement device for almost all bulk materials and sediments

MBA700



- + *Safe level measurement*
- + *Vibrating paddle*
- + *Sensitivity adjustable in three levels*
- + *No jamming in bulk material*
- + *Robust and durable design*



Vibrating paddle also measures very light bulk materials



Sensitivity of the vibrating paddle can be set in three levels



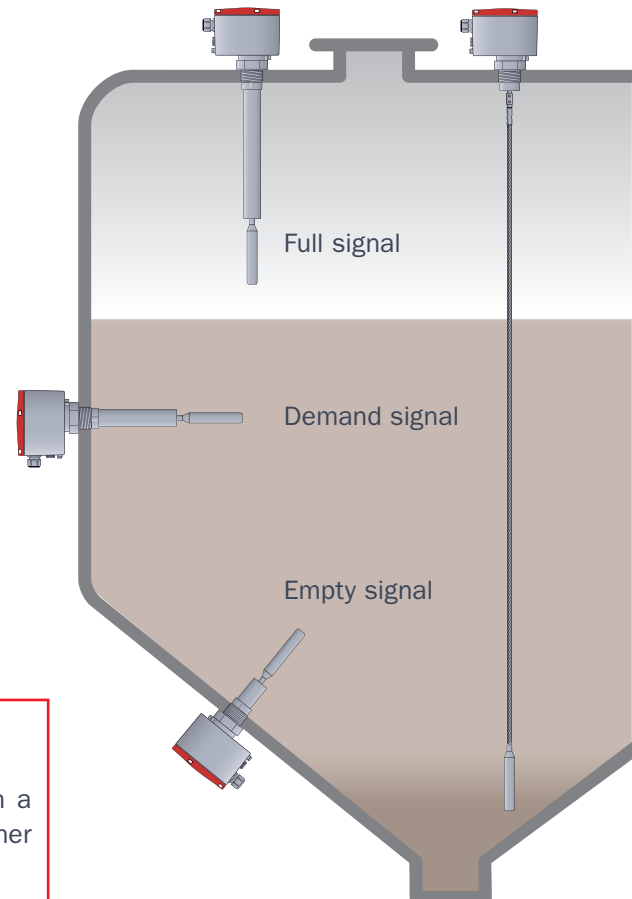
With bellows in a filling station for powdery, dangerous goods



Safe level measurement with the vibrating paddle MBA700.

The MBA700 vibrating paddle has a highly sensitive sensor inside its robust housing. Its strength can be seen in particular when measuring very light and powdery bulk material (10 g/l). With this single-rod design, jamming and depositing of bulk material is excluded, which prevents error messages. The patented MBA700 vibrating paddle gives users three individually-selectable sensitivity levels making it very well suited for light as well as medium and heavy bulk material.

The MBA700 reliably carries out difficult measurement tasks, such as the measurement of sediment in liquids for example. The vibrating paddle prevails due to its energy efficiency: It vibrates at 290 Hz and therefore does not consume much energy. The low vibration frequency also prevents it from independently “shovelling itself free”, thereby providing a reliable measurement.



Application areas for almost all bulk materials and sediments:

as a full sensor, empty sensor or demand sensor in a silo; in filling stations; in transfer stations and many other applications.

TECHNICAL DESCRIPTION

Operating Conditions:	Electronic housing	Probe
Max. temperature:	-40 ... +60 °C	-20 ... +150 °C
Max. pressure:	Ambient pressure	up to 10 bar
Protection class:	IP65	IP68
Material:	Aluminium GD-ALSi12 / 3.2582.05	Probe: Stainless steel 1.4301
	iron-free and therefore resistant to seawater	Protective tube: Stainless steel
Product properties:	MBA700 with relay contact	MBA700 with power output
Operating voltage:	20 ... 250 V AC/DC	20 ... 30 V DC
Signal output:	1x potential-free changeover contact	8/16 mA output
	Max. load: AC 250 V 8 A	Two-wire technology
	DC 24 V 8 A	
Power consumption:	< 3 VA	
Mech. load limit:	100 N	
Switching speed full:	1 s	
Switching speed empty:	2 ... 5 s	
Approvals:	Dust Ex approval according to ATEX for zone 20/21: II 1/2D EX t IIIC T* Da/Db	
Immersion depths:	Standard: 125 mm or 190 mm, with pipe extension up to 2,000 mm	
	with cable extension up to 20,000 mm	
Connection types:	Thread: R1 1/2" EN10226-1 1 1/2" NPT	
	Flange: DN80 PN6 DN100 PN6	