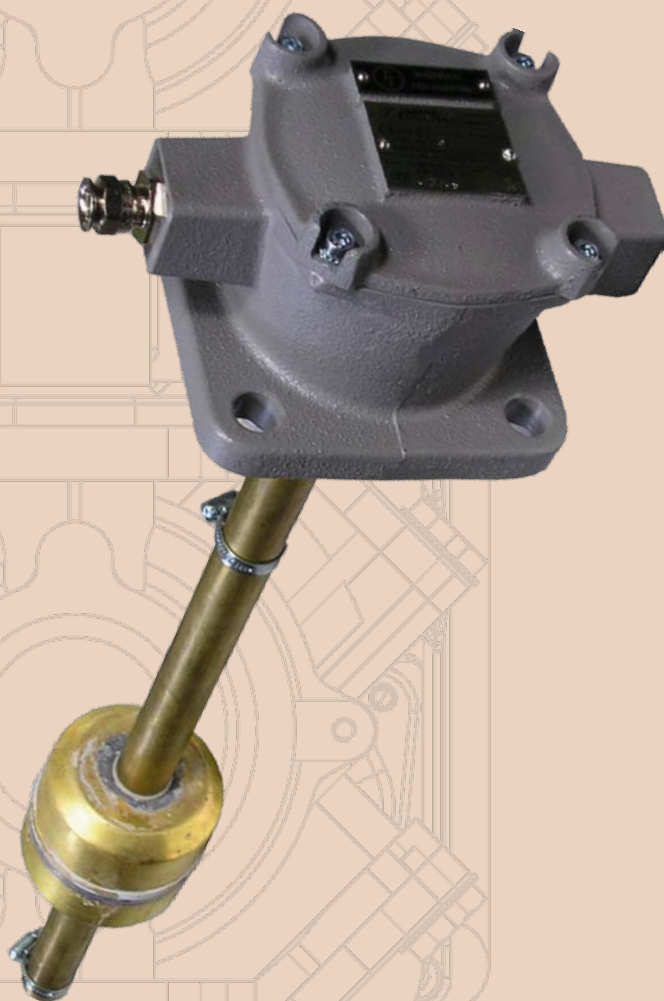


ADAST

float controller

- The float controller is a device, which serves for signalling of minimum height, maximum height and emergency state of the liquid fuel levels in storage and service tanks or for the automatic control of the pumping equipment accordance with the height of the liquid level in the tank.
- The float controller is approved for the operation in the explosion-prone environments – the group of devices II, category 2 (1) G, group of explosiveness of substances IIA, class of temperatures T3.
- The float controller E 218.3 follows up with design series of the float controllers of the type E 218.2 and it represents its full replacement.
- The simple design of the float controller ensures a trouble-free operation and long service life.
- The float controller may be used for fuels of the $1500 \text{ mm}^2 \cdot \text{s}^{-1}$ maximum viscosity.
- On the customer's request the head may be equipped with two bushings.



E 218.3/xx, E 218.3/xx/R

The float controller is approved for the operation in the explosion-prone environments – the group of devices II, category 2 (1) G, group of explosiveness of substances IIA, class of temperatures T3.

The float controller E 218.3/xx, E 218.3/xx/R meets the requirements of the Directive 94/9/EC of the European Parliament and the Council – ATEX.

Function

The ascending or descending level of liquid in the tank makes move the float, too. As soon as the float (type E 218.3/xx) gets the level of a reed contact, the permanent magnet makes close the electrical circuit to which another auxiliary relay for controlling the signalling or pumping device may be connected. The upper – third contact serves for signalling the danger of the tank overflowing and it is always located approximately 60 mm above the maximum-level height switch. The float limit positions are locked with stops providing that the reed contacts keep in the closed positions (minimum-level position and that of overflowing – emergency one). In the case of the float controller E 218.3/xx/R the function of the reed contacts is inverted – when the magnet reaches a contact level, the contact opens – the circuit becomes interrupted.

Recommended types

Tank diameter (mm)	600	800	1200	1600	2000	2520	2600	3000
Type of float controller	E 218.3/6	E 218.3/8	E 218.3/12	E 218.3/16	E 218.3/20	E 218.3/25	E 218.3/26	E 218.3/30
Max. level (mm)	220	220	240	260	300	350	360	400
Min. level (mm)	500	700	1120	1520	1920	2420	2520	2920
Total length (mm)	600	800	1220	1620	2020	2520	2920	3020

of float controller in accordance with the tank diameter

Float controller E 218.3

Main parts of the float controller

in the non-explosive version EEx d II A T3

- 1 – Terminal block head
- 2 – Terminal block
- 3 – Guide tube (two-shell one)
- 4 – Supporting profile
- 5 – Reed contact
- 6 – Float
- 7 – Toroidal ferrite magnet
- 8 – Stop
- 9 – Separating partition

Technical parameters

Service voltage	E 218.3/xx	230 V A.C
	E 218.3/xx/R	200 V D.C
Current load	E 218.3/xx	1 A
	E 218.3/xx/R	0,5 A

Switching on output – A.C. voltage 40 VA

Switching on output – D.C. voltage 20 W

Operating temperature –30 to +60 °C

Reed contact service life 5.10⁵ closings

Fuel viscosity – max. 1500 mm².s⁻¹ (cSt)

Number of signalled positions 3

