

Level control – A2529UK Mona

Digester

Each digester tank is equipped with a radar sensor, which is mounted in the digester roof. This sensor has two lower switch points (SL, ZLL) and two upper switch points (SH, ASHH).

The switch points SL / ZLL and SH control the digester pump, which is started if the level increases above SH and pumps the substrate from the digester to the post digester.

If ASHH is reached the feeding stops.

Additionally to this level control there is a capacity sensor in the digester roof. This sensor acts as second line of defense. In case of an overflow alarm a hardware contact turns off the feeding pumps.

As third overflow safety a hydrostatic sensor is mounted in the lower part of the tank. This measurement acts as safeguard for the hydrostatic level control.

Post digester

The post digester tank is equipped with a hydrostatic level control, which measures the pressure near the bottom of the tank. This sensor has one lower switch point (ASL) and two upper switchpoints (SH, ASHH).

The switch points SL and SH control the post digester pump, which is started if the level increases above SH and pumps the digestate from the post digester to the separation unit.

If ASHH is reached the feeding stops.

Additionally to this level control there is a vibration sensor mounted in the upper part of the post digester. This sensor acts as second line of defense. In case of an overflow alarm a hardware contact turns off the feeding pumps.

Storage tank

The storage tank is equipped with a hydrostatic level control, which measures the pressure near the bottom of the tank. This sensor has one lower switch point (ASL) and an upper switchpoint (ASH).

The switch points SL stops the post digester pump, in case the level drops below the allowed minimal level.

If ASH is reached the feeding stops.

Additionally to this level control there is a vibration sensor in the upper part of the post digester. This sensor acts as second line of defense. In case of an overflow alarm a hardware contact turns off the feeding pumps.