



TMB Duo basic

electronic level control

SOTEX TMB stands for SOTEX Tank Mass Monitoring. It is a SOTEX control unit with Siemens PLC that monitors the content mass of heat storage tanks. The SOTEX TMB DUO basic, suitable for monitoring two heat storage tanks connected in parallel. The SOTEX TMB-DUO is an inventive monitoring system that ensures the mass in your heat storage tanks is maintained. In practice, when heat storage tanks are connected in parallel, the problem is that there is too much mass in one tank, resulting in a lack of mass in the other tank. The law of communicating vessels did not sufficiently apply to the use of a passive return line. In particular, this phenomenon occurs when there are differences in height between tanks and/or when the distance between tanks and the coupling line is too great.

Mass differences by transferring heat from one buffer tank to another are a thing of the past when using the SOTEX TMB-DUO. By means of sensors and an intelligent control unit, we provide voltage-free contacts with which a double set of valves and a return pump can be controlled (max. 10 Amps). We also give a signal for the rotation speed of the return pump. The touch-button display always shows the mass of both tanks. This panel can also be used to enter the desired values for the installation in question.

The SOTEX TMB series is a separate system. The system can be installed in our nitrogen expansion system, the VP(-L) duo series (single unit with double tank monitoring) or can also be supplied separately, for example by wall mounting in a project.



- **Important to know: the SOTEX TMB needs the input of a climate computer. A final release is required, as well as an input for the direction (from tank 1 - 2 or vice versa).**



- Ambient temperature control panel
- Control panel dimensions
- Power supply control panel
- Process connection sensor
- Output signal of sensors
- Pressure range of sensors
- Output signal for frequency controlled pump
- Make of PLC
- Make of sensors

+5 ... +35 °C
 400 * 400 * 210 mm
 1 ~ 230 VAC 50Hz
 1/2 "
 4 ... 20 mA
 0 ... 1 bar (default)
 4 ... 20 mA
 Siemens
 Vega or alternative make