



T650

Measuring and Balancing Device

The T650 SV Technics instrument is designed for hydraulic balancing of heating and cooling systems. It allows measuring static pressure, differential pressures and flow in the said systems. Using the differential pressure measured by the measuring component in the system, T650 SV Technics calculates the flow that runs through the component (balancing valve or measuring orifice). The flow can be measured in all branches of the whole hydraulic system and the whole system can be balanced.

You operate the device using the application in your mobile device (Android, iOS), the application displays the current pressure and flow on the valve. The calculated flow rate can also be corrected for antifreeze in cooling systems.

- Separate unit of measurement
- Fully differential pressure sensor in unit of measurement with 24 bit pressure processing
- Digital compensation of temperature effects and non-linearity of pressure sensor
- User app for Android / iOS mobile devices
- Correction of antifreeze flow calculation
- Easy selection of balancing valve according to valve illustration
- Recording of measured values with capacity up to 2000 records
- Cover IP65



Nominal pressure range*	1,000 kPa or 2,000 kPa
Max. Overpressure	120 % of nominal pressure
Linearity and hysteresis error	0.15 % from nominal pressure range
Error for the pressure range 0 till 5 kPa after pressure zero setting	± 50 Pa for nominal pressure range 1 MPa ± 100 Pa for nominal pressure range 2 MPa
Temperature error	0.25 % from nominal pressure range
Medium temperature**	-5 ~ 90 °C
Ambient temperature	-5 ~ 50°C
Storage temperature	-5 ~ 50°C
Wireless data transfer	Bluetooth low energy 5.0

Power supply	AAA Alkaline batteries or NiMH rechargeable batteries
Power Consumption	25 mA
Operating time	45 h Max.
Zeroing of the pressure measurement	Mechanical with hydraulic bypass
Water Resistance	IP65
Calibration Validity	24 months
Dimensions (l x w x d)	180 x 80 x 52
Weight	420 g

* optional

** measured at the end of measuring hoses, length 1.5 m. Hot water flows through T650 SV Technics hydraulic parts during Pressure zero procedure. Maximum time duration of zeroing when temperature of the medium exceeds 50 °C is 10 seconds.