



HERZ Smart-2, 1 <b>8904 02</b> Measuring computer for differential pressure	HERZ 1 <b>8900 04</b> Measuring computer for differential pressure
	
<p><b>Description:</b> Electronic Differential Pressure Gauge to measure the differential pressure and flow rate at balancing valves in heating and chilled water systems, consisting of sensors and computer, transfer via bluetooth. The software includes all well-known brands. Data memory for the recording of measurement values. Li/ion battery, connector hoses with quick-on stops, software and user manual on CD, measuring set 1 <b>0284 00</b> and extension lead for measuring valve 1 <b>0284 10</b> are packed in a carrying case. Energy Li/ion battery, operating about 35 hours, charge about 230 V or USB. Temperature from - 30 to +120 °C, max. Differential pressure 10 bar. It is recommended to provide annual maintenance and calibration!</p>	<p><b>Description:</b> Electronic differential pressure gauge for one-handed operation with integral pressure transducer for the measurement at balancing valves with direct display and display of flow and the differential pressure. Measuring range 0–10 bar, max. Pressure 12 bar, connection for printer or PC via USB interface, IP 65, recording memory for 20,000 measurements. Delivered with accessories: 2 measuring hoses with quick-on stops and filter hose adapter, software and user manual on CD, measuring set 1 <b>0284 00</b> and extension lead for measuring valve 1 <b>0284 10</b> Power supply Li/ion battery, operation time 12 hrs. It is recommended to provide annual maintenance and calibration!</p>
<p><b>Dimensions:</b> 160x85x50mm <b>Dimensions, mobile device:</b> 70x120x10mm</p>	<p><b>Dimensions:</b> 180 x 84 x 51 mm</p>
<p><b>Weight:</b> 0,45 kg <b>Weight, mobile device:</b> 0,1 kg</p>	<p><b>Weight:</b> 0,38 kg</p>
<p><b>Power supply:</b> 6600mAhrs Li/ion battery, 35hrs operating time, charging with supply unit 230 V~ Mobile device: 1200 mAhrs Li/ion battery, 8hrs operating time, charging with supply unit 230 V~ or USB port</p>	<p><b>Power supply:</b> 3V Li/ion battery 950 mAhrs, 12 hrs operating time, 1 year Stand-By, charging with supply unit 230 V~ or USB port</p>
<p><b>Display:</b> 70x52 mm, illuminated</p>	<p><b>Display:</b> 44x33 mm, illuminated, 240x320 pixel RGB, 65k colors</p>
<p><b>Indication:</b> Currently measured value, transfer via Bluetooth, approx. range: 300m</p>	<p><b>Indication:</b> Currently measured value and storage of permanently measured values</p>
<p><b>Software:</b> Update creation by manufacturer, implementation by user via change of SD-card</p>	<p><b>Software:</b> Update only by manufacturer</p>
<p><b>Interface:</b> USB to PC</p>	<p><b>Interface:</b> USB to PC</p>
<p><b>Software:</b> on CD Administration of projects, Software Report Viewer, Output of measurement report, Software „Valve Browser“ for valve selection</p>	<p><b>Software:</b> on CD Output of stored measurement values into table with the help of the software</p>
<p><b>Data memory:</b> 2 GB with SD- card, 4 million measurements can be stored.</p>	<p><b>Data memory:</b> 20000 measurements can be stored.</p>
<p><b>Ambient temperature:</b> 0 – 40 °C</p>	<p><b>Ambient temperature :</b> -5 – 50 °C</p>
<p><b>Medium temperature:</b> -30 – 120 °C</p>	<p><b>Medium temperature :</b> -5 – 90 °C</p>
<p><b>Storage temperature:</b> -30 - +40 °C test hoses can freeze</p>	<p><b>Storage temperature :</b> -5 – +50 °C test hoses can freeze</p>
<p><b>Protection class:</b> IP 65</p> <p><b>Pressure sensor:</b> internal pressure sensing in measuring computer through two test hoses (red/blue), ventilation during every measurement</p>	<p><b>Protection class :</b> IP 65</p> <p><b>Pressure sensor:</b> internal pressure sensing in measuring computer through two test hoses, test hoses need to be pre-filled and vented</p>

<p><b>Measuring range:</b> Max. pressure: 25 bar Differential pressure: 10 bar Static pressure: 10 bar</p>	<p><b>Measuring range :</b> Max. pressure: 12 bar Differential pressure: 10 bar Static pressure: n.a.</p>
<p><b>Connection to valves:</b> Quick coupling connection directly to valves with adapter 1 0284 00</p>	<p><b>Connection to valves :</b> Quick coupling connection directly to valves with adapter 1 0284 00</p>
<p><b>Verification:</b> possible and recommended by manufacturer, validity 1 year</p>	<p><b>Verification :</b> possible and recommended by manufacturer, validity 1 year</p>
<p><b>Calibration:</b> done at each measurement</p>	<p><b>Calibration:</b> once daily before the measurements, done by pressing the „ZERO“ key without connected test hoses</p>
<p><b>Measurement error:</b> 0,1% of the measuring range</p>	<p><b>Measurement error :</b> 0,15% of the measuring range</p>
<p><b>Measurement method 1:</b> Output of flow rate and, dP</p> <p><b>Measurement method 2:</b> Output of hand wheel position</p>	<p><b>Measurement method :</b> Output flow rate and dp, valve type, settings, medium</p>
<p><b>Temperature measurement:</b> Possible with accessories and Software-Upgrade</p>	<p><b>Temperature measurement :</b> Not possible</p>
<p><b>Settings:</b> Brightness, Calendar, e-mails, dates,...</p> <p><b>Language :</b> German, English, French, Spanish, Turkish, Finnish, Norwegian, Russian, Swedish, Italian</p> <p><b>Pressure unit:</b> bar, mbar, kPa, psi, mmH2O</p> <p><b>Flow rate unit:</b> m³/h, l/h, l/s, l/min, USGPM, UKGPM</p> <p><b>Temperature unit:</b> ° C, ° F, K</p> <p><b>Medium:</b> Water, antifreeze, %, temperature</p> <p><b>Measurement parameters:</b> Period, calibration, time, date</p>	<p><b>Settings:</b> <b>Language:</b> German, English, French, Spanish, Czech, Danish, Croatian, Italian, Dutch, Polish, Rumanian, Russian, Finnish, Swedish, Serbian</p> <p><b>Pressure unit:</b> Pa, hPa, kPa, MPa, mbar, bar, psi, at, mWs, mmWs, mmHg</p> <p><b>Flow rate unit:</b> m³/s, m³/min, m³/h, l/s, l/min, l/h, USgal/s, USgal/m, USgal/h, UKgal/s, UKgal/m, UKgal/h, Lambda</p> <p><b>Temperature unit:</b> °C, °F, K</p> <p><b>Medium :</b> Water, ethylene glycol, 1,2-propanediol</p> <p><b>Measurement parameters :</b> Period, calibration, time, date</p>
<p><b>Valve types in memory:</b> HERZ, Hattersley, MMA, Danfoss, MNG, Oventrop, TA, Stabiflo, Caleffi, Broen, Ventim, Duyar, VIR, Pettinaroli, Naval, Gampper, KSB, Econosta, ARI, Comap, Tecoli, Crane, Armstrong, Oras, Vexve, ESBE</p>	<p><b>Valve types in memory:</b> HERZ Broen (Venturi, Dynamic, Ballorex, VenturiRus) Cimberio (721, 727, 747, 787, 788, 3723, 3739) Comap (750, 751) Danfoss (AB-QM, ASV, MO, MSV, USV) ESBE / MMA (2650, 2640, 2730, 2740) Honeywell / MNG (Combi) Oras (4100) Oventrop (Hydrocon) TA Heimeier (STAD, STAF, TBV, Strato) VIR (9400, 9450, 9505, 9515, 9525, 9555, 9565)</p>