

# D-System

Data logger

Hydraulic and thermal process visualization



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## Components and Systems

Heating elements, thermal sensors and process control – hotset is your partner for the realization of intelligent product and service solutions in the field of industrial heat technology. Based on our international presence and our own production sites, we operate as a component supplier and development service provider for customers in all industries.

We supply you with components for your series production, we implement complex system solutions for you or we take over entire value chains: your requirements, your goals and your wishes always form the centre of our actions. You benefit from flexible production and logistics structures, an interdisciplinary engineering and over four decades of technology experience.

hotset – components. systems. projects.

## Facts

- Analyse quickly and easily water-hydraulic processes  
e.g in injection molds or heat exchanges
- Quality control of heating and cooling circuits
- Process visualization
- Analysis of flow rate,  
its flow and return temperatures ( $\Delta T$ ) as well as  
the applied and remaining water pressure ( $\Delta P$ )
- Designed for new and existing water circuits
- Savings potential in machine equipment or peripherals
- Can be used as mobile service tool
- Save, document and adjust the measured values
- Browser access via WLAN/LAN
- Long-term monitoring
- Design control and effectiveness test  
(power losses and energy balance)
- Simple evaluation directly in the display and/or via  
external programs, e.g. Microsoft Excel



D-System Operating Unit



D-System Measuring module

Technical data	D-System	D-System HT
Measuring medium	Water	
Max. medium temperature	85 °C / 185 °F (short-term 95 °C / 203 °F)	180 °C / 350 °F
Max. operating pressure	12 bar	16 bar

New

Measuring module	D-System	D-System HT
Dimension (H x B x T) [mm]	225 x 190 x 85	225 x 190 x 190
Weight [kg]	5,5	6,5
Medium connection	4 x G 3/4" inner thread	

New

Operating unit		Data logger	
Dimension (H x B x T) [mm]	240 x 190 x 85	Data type	.csv for e.g. Excel import
Weight [kg]	2.7	Measurement data	<ul style="list-style-type: none"> <li>· flow rate</li> <li>· support line pressure</li> <li>· return line pressure</li> <li>· support line temperature</li> <li>· return line temperature</li> <li>· date</li> <li>· time</li> <li>· limit values</li> <li>· hardware errors</li> <li>· synchronization</li> </ul>
Interface	USB, WLAN, LAN		
Display	7" LED TFT, 800 x 480 Pixel		
Control	touch, max. 10 points		
Power supply	230 V / 5 V 50 Hz CE power plug with 3 m connection cable		
Power requirement	max. 15 W		
Connection cable	Lithium polymer 12000 mA integrated		

Temperature measurement	D-System	D-System HT
Measuring principle	Resistance Pt1000	
Measuring accuracy	$\pm 0,3 \text{ K}$	

New

Flow measurement	D-System	D-System HT
Range	1,8 – 32 l/min	0,3 – 25 l/min
Measuring principle	Piezo ceramic sensor element	
Measuring accuracy by < 50 % FS* (Water)	< 1 % FS*	$\pm 5 \text{ % FS}^*$

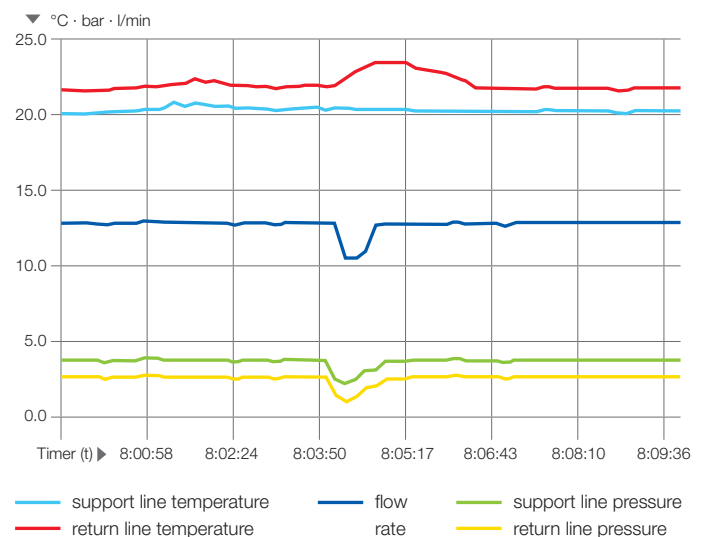
New

\* Full scale

Pressure measurement	D-System	D-System HT
Range	0 – 12 bar	0 – 16 bar
Resolution	0.1 % from end of measuring range	
Measuring accuracy	0.5 % from end of measuring range	

New

Example of a measurement evaluation with Microsoft Excel



## Stock Range

Stock ID	Designation
8806000	D-System Set Type 1
The D-System Set Type 1 consisting of:	
8805000	Operating unit
8805001	Measuring module Type 1
8805002	Connecting cable
8805003	Plug-in power supply
8805004	Aluminum frame case
8805005	Documentation on a USB stick
Optional:	
8805006	Magnetic wall mount for the operating unit



hotset

Hotset GmbH  
Hueckstraße 16  
58511 Lüdenscheid  
Germany

Phone +49 / 23 51 / 43 02-0

[www.hotset.com](http://www.hotset.com)