EN

HidroSmart and HidroScope
Monitoring and control of pumps

Technical Data



Technical data HidroSmart

General data		Typical	Minimum Maximum
Power supply	V	24 VDC	19.2 ... 30 VDC
	Power failure level	18.2 V	
	Power failure delay	10 ms	
Temperature range	Storage temperature		-40 ... +85° C
	Operating temperature		-20 ... +60 °C
Dimensions	Length	162 mm	
	Width	91 mm	
	Hight	61 mm	
Mounting	Housing	Top hat rail DIN EN 50 022	
Weight	Without cable / packing	295 g	
Protection class	Housing	IP20	
Input configuration		**Typical**	**Maximum**
Analog inputs AI0 ... 7			
0 ... 10 V	Measuring range U_I	0 ... 10.21 V	
	Measuring error		0.5 %
	Resolution A / D converter		15 Bit
0 ... 20 mA	Measuring range I_I	0 ... 26.882 mA	
	Measuring error		0.5 %
	Resolution A / D converter		15 Bit
Resistance thermometer RTD0 ... 5			
RTD0 ... 5	Measuring range (MR)	-50 °C ... +250 °C	
	Measuring error		±0.1 % MR
	Resolution A / D converter		15 Bit
	Connections	2-wire, 3-wire and 4-wire	
	Sensor type	PT100, PT1000	
Thermocouples TC0 ... 3			
TC0 ... 3 (K-type)	Measuring range (MR)		-50 °C ... 250 °C
	Measuring error		±0.5 % MR
	Resolution A / D converter		15 Bit
Digital inputs DI0 ... 9			
24 VDC - inputs	Voltage range signal (0) U_{IH}	13 V	30 V
	Voltage range signal (1) U_{IL}	-3 V	12.3 V
Output configuration		**Typical**	**Maximum**
Analog outputs AO0 ... 3			
0 ... 10 V	Output voltage range U_O	0 ... 10.24 V	
	Output voltage error		0.5 %
	Load resistance R_O	≥ 1 kΩ	
	Resolution D / A converter		12 Bit
0 ... 20 mA	Output current range I_O	0 ... 20.49 mA	
	Output current error		0.5 %
	Load resistance R_O	≤ 600 Ω	
	Resolution D / A converter		12 Bit
Digital outputs REL0 ... 1			
Relay outputs	Switching voltage		220 VDC / 250 VAC
	Switching capacaty		60 W / 62.5 VA
	Isolation	1000 V_{rms}	

Technical data HidroScope

General data		Typical	Minimum Maximum
Power supply	V	24 VDC	19.2 ... 30 VDC
Temperature range	Storage temperature		-40 ... +85 °C
	Operating temperature		-20 ... +60 °C
Dimensions	Length	105 mm	
	Width	91 mm	
	Hight	61 mm	
Mounting	Housing	Top hat rail DIN EN 50 022	
Weight	Without cable / packing	135 g	
Protection class	Housing	IP20	
Input configuration		**Typical**	**Maximum**
Vibration inputs IEPE 1...6			
IEPE Inputs	Measuring range (MR) Input voltage range according to IEPE Sensor IMI 601A01: 10.2 mV / (m/s²) ±20 %	±20 m/s² 520 mV (peak - to - peak)	
	Input voltage Acceleration signal Offset	±260 mVAC 18.5 VDC	
	Constant current @ 25 °C	5.75 mA ±15 %	
	Output voltage at open load	18.5 V ±5 %	
	Measurement error @ 25 °C		± 0.5 % MR
	Frequency range	3 Hz ... 1 kHz	
	Resolution A / D converter		16 Bit
FFT module			
FFT	Number of lines in spectrum	4096	
	Sampling rate	≥ 2.5 k Samples/s	0.5 %
	Filter cut-off frequency High pass 1st order Low pass 4th order	 ≤ 3 Hz ≥ 1 kHz	
	Short circuit protection	yes	
	Open terminal detection	yes	

Hidrostal pumps

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Hidrostal pumps are used in numerous branches and industries due to their excellent pumping characteristics. They convey a wide variety of liquids and materials with low pulsation and gentle handling. Our specialists select the suitable material combinations and adapt each pump individually to the conditions on site. This approach ensures that Hidrostal pumps prove their worth even in difficult applications and thus achieve the best results in terms of efficiency, energy efficiency and low life cycle costs.

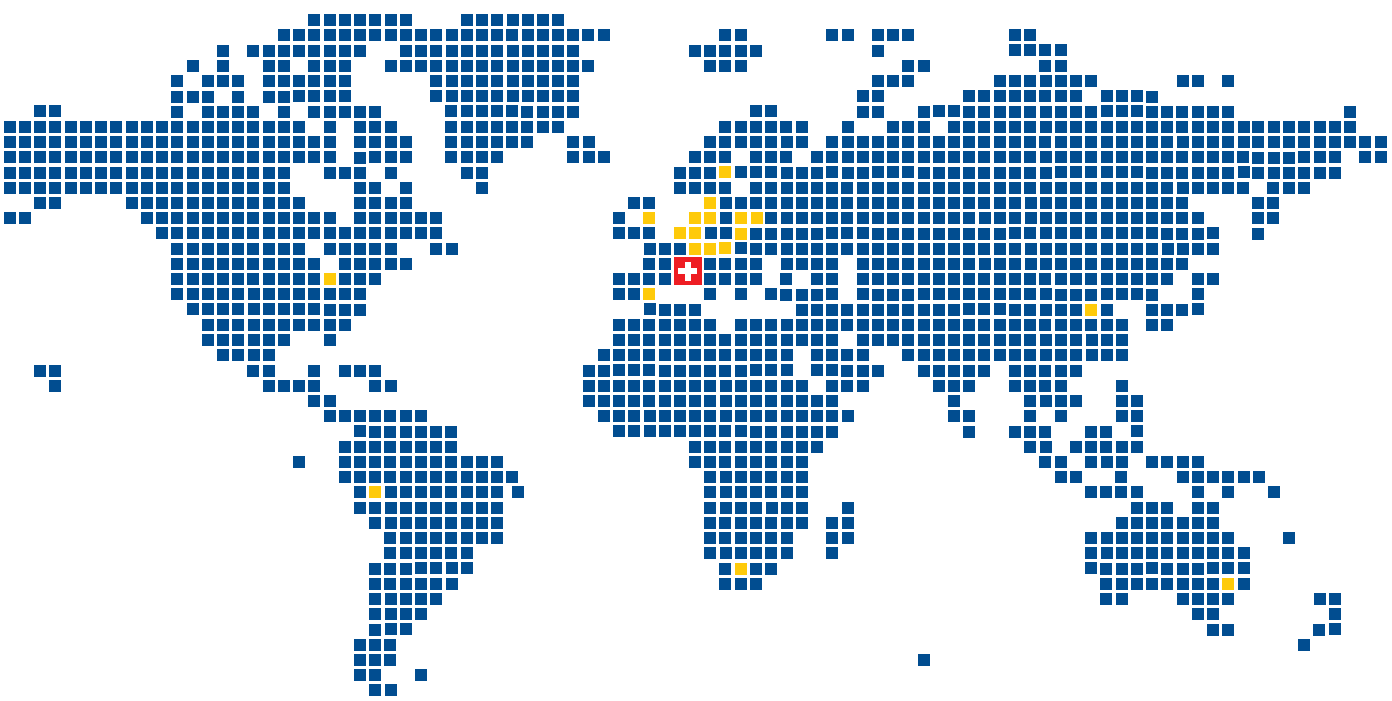
- → Non-clogging delivery
- → High suction capacity
- → Gentle conveying due to low shear forces
- → High efficiency
- → Stable characteristic curve
- → Long service life
- → Low pulsation
- → Continuous, speed proportional conveying
- → High pressure stability











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