

# SCYLAR INT 7

## CALCULATOR

## HYDROMETER



### APPLICATION

Energy calculator for universal use in systems for heating and cooling measuring. Highly accurate recording of all billing data in local and district heating / cooling systems.

### FEATURES

- ▶ Lithium battery (lifetime depends on selected functionality and connected flow sensor)
- ▶ Can be used for heating, cooling or combined heating / cooling
- ▶ Temperature range -10°C ... 190°C
- ▶ Meets the requirements of EN 1434 in class 2
- ▶ Connection possibility of 4 wire temperature sensor
- ▶ Power save mode
- ▶ NOWA test capability
- ▶ History memory for 24 months
- ▶ HYDRO-SET parameterization software on Windows basis guarantees optimum adaption to the user's specific needs
- ▶ Expandable functionality with add on modules Plug and Play

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### GENERAL

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Application	heating - cooling - heating/cooling
Approval	MID
Protection class	IP 54
Battery supply	3.0 VDC - max. 12 years lifetime; 3.6 VDC - max. 10 <sup>1</sup> / 16 <sup>2</sup> yearslifetime
Mains supply	24 VAC; 230 VAC
Volume pulse input frequency	max. 100 Hz; pulse durance > 3ms
Pulse value	l/pulse 0.01 ... 10,000 <sup>3</sup>
Temperature sensor type	Pt 100 or Pt 500 with 2- or 4- wire leads; Ø 5.2 / 6mm or direct sensor
Cable length of temperature sensor	Pt 100: 2m; Pt 500: 2/3/5/10m

- 1: with flow sensor SHARKY 087  
2: with flow sensor SHARKY 473  
3: depending on size of flow sensor

### BASIC FEATURES

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Ambient class	class E1 + M1
Ambient Temperature	°C 0 ... 55
Storage Temperature	°C -25 ... +70
Interfaces standard	Optical ZVEI interface
Interfaces optional	2 slots for modules with M-Bus, RS232, pulse output, pulse input or combined pulse in-/output

### DISPLAY

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Display indication	LCD, 7-digit
Units	MWh - kWh - GJ - Gcal - MBtu
Total values	9,999,999 - 999,999.9 - 99,999.99 - 9,999.999
Values displayed	Energy - Power - Flow - Flow rate - Temperature and further

### INTERFACES

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Optical	ZVEI interface, for communication and testing, M-Bus protocol
M-Bus	Configurable telegram, according to EN1434-3. Data reading and parametrization are via two wires with polarity reversal protection
RS232	Serial interface for communication with external devices. A special data cable is required. M-Bus protocol.
Pulse output	Module with 2 Open Collector pulse outputs (potential-free), 4 Hz, pulse width 125ms. Configurable via HYDRO-SET software.
Pulse input	Module with 2 pulse inputs, max. 8 Hz. Configurable via HYDRO-SET. Datas can be transferred remotely.
Combined pulse in-/output	Module with 2 pulse inputs and 1 pulse output. Configurable via HYDRO-SET.

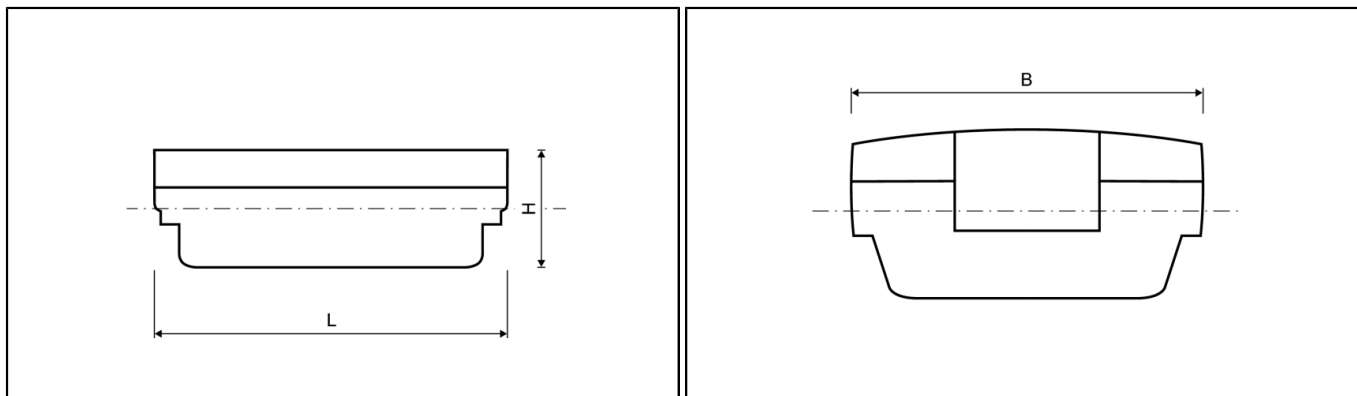
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### TEMPERATURE INPUT

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Sensor current	mA	Pt 100 peak < 8; rms < 0.015, Pt 500 peak < 2; rms < 0.012	
Measuring cycle	T	s	with mains unit: 2 s; with battery: 16 s
Starting temperature difference	$\Delta\Theta$	K	0.1
Min. temperature difference	$\Delta\Theta_{\min}$	K	3
Max. temperature difference	$\Delta\Theta_{\max}$	K	177
Absolute temperature measuring range	$\Theta$	°C	-10 ... 190

### DIMENSIONS



SCYLAR INT 7			
Overall length	L	mm	150
Width of calculator	B	mm	100
Height	H	mm	50