

SCYLAR Series

ENERGY METER 5202S

ISTEC

Flow Measurement & Control



APPLICATION

SCYLAR Series Energy Meter is designed for use in heating systems, cooling systems and heating /cooling systems. This highly accurate energy calculator records all data needed to submeter from small apartment to large district heating/cooling and solar applications.

FEATURES

- Can be used for Heating, Cooling, Solar or Combined Heating/Cooling
- Measurement Accuracy fulfills the requirements according to EN 1434
- Improved Power Consumption – longer battery lifetime
- Approved according to MID and PTB K 7.2 (cooling)
- Programmable History Memory (daily, weekly, monthly)
- Windows-based Software for Customization to Users' Specific Needs
- Individual Remote Reading (AMR) with optional Add-on Modules
- Optional Network Communication

Represented By:

ISTEC CORPORATION

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SCYLAR Model 5202S

ENERGY METER

GENERAL

SCYLAR 5202S

Application	Heating, Cooling, Solar, Heating & Cooling
Approval	MID (DE-10-M1004-PTB004) and PTK K7.2 for Cooling (22.75/11.02)
Protection Class	IP 54
Battery Supply	3.6 VDC A-cell 11 Years Lifetime; 3.6 VDC D-cell 16 Years Lifetime (optional)
Power Supply	24 VAC (optional)
Volume Pulse Input Frequency	Max. 200Hz; Pulse Durance >3ms
Pulse Value	g/Pulse 1, 10, 100
Temperature Sensor Type	Pt 1- / Pt 500
Measuring Cycle Volume	2 sec
Measuring Cycle Flow	8 sec

BASIC FEATURES

SCYLAR 5202S

Ambient Class	Class E2+M2
Ambient Temperature	32 to 131°F
Ambient Storage Temperature	-13 to +140°F (not >95°F max for more than 4 weeks)
Communication	Communication Interfaces (e.g., M-Bus+M-Bus; 2 Primary Addresses, 1 Secondary Address)
Interfaces Standard	Optical ZVEI Interface
Interfaces Optional	2 Slots for Modules with M-Bus, Pulse Output, Pulse Input, Combined Pulse Input/Output or Analog Output
Temperature Range Heating	32°F to 356°F
Temperature Range Cooling	32°F to 194°F
Temperature Range Heating/Cooling	32°F to 221°F

DISPLAY

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Display Indication	LCD, 8-digit
Units	MBtu - gal - GPM - °F (special order: m ³ - m ³ /h - MWh - kWh - GJ - Gcal - °C)
Totals Value	99,999,999 - 9,999,999.9 - 999,999.99 - 99,999.999
Values Displayed	Energy - Power - Volume - Flow Volume - Temperature - More



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INTERFACES

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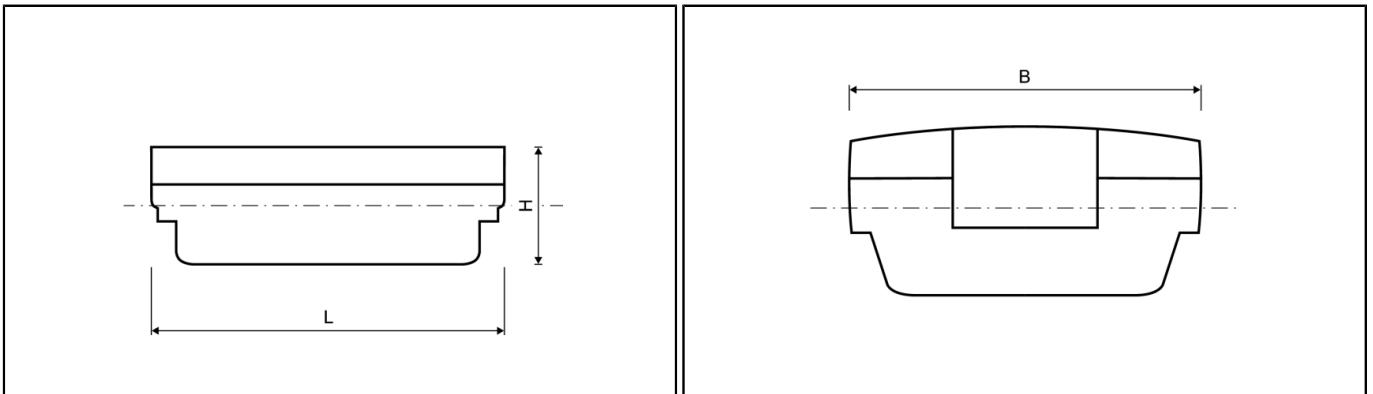
Opticals	ZVEI Interface for Communication and Testing, B-Bus Protocol, 2400 Baud
M-Bus	Configurable Telegram, according to EN1434-3, Data Reading and Parametrization via two wires with polarity reversal protection, auto baud detect (300 and 2400 baud), 2 M-Bus with 2 primary addresses
Pulse Output	Module with 2 Open Collector Pulse Outputs (potential-free), Output 1:4Hz (pulse width 125 ms), Pulse or Statuc Duration/Pulse Break 1:1, Configurable via IZAR@SET software
Pulse Input	Module with 2 Pulse Inputs, max. 20Hz, configurable via IZAR@SET software, data can be transferred remotely
Combined Pulse Input/Output	Module with 2 Pulse Inputs, max. 20Hz, configurable via IZAR@SET software needed for leak detection
Analog Output	Module for 4 to 20mA with 2 Programmabke Passive Outputs, Programmable value in case of error

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 Main Unit: 2s; with A-cell Battery: 16s; with D-cell Battery: 4s
Starting Temperature Difference	$\Delta\theta_{min}$	K	0.125
Minimum Temperature Difference	$\Delta\theta_{max}$	K	3
Maximum Temperature Difference		K	177
Absolute Temperature Measuring Range	θ		-4°F to 374°F

DIMENSIONS



Overall Length	L	5.9"
Width of Meter	B	3.9"
Height of Meter	H	2.1"

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