

Internal Buffer/Boiler Module

HZS 534



- Upper buffer temperature (PT1000)
- Lower buffer temperature (PT1000)
- Middle buffer (PT1000)
- Fast heating module(1) (relay output)
- Fast heating module(2) (relay output)
- Buffer load pump (relay output)
- 230 V AC supply in and out
- Ribbon cable connection to the controller and the next expansion module

Power Supply

Relay power supply	230 V AC
Fuse	5 A for relay outputs and/or 3 A for solar module
Internal electronics power supply	+24 V (from HZS 511), must be connected to the expansion controller
+24 V current consumption	HZS 534: maximum 15 mA (without relays) maximum 40 mA (with relays)

Digital Input Specifications (counter input)

Input signal	Open Collector
Input frequency	maximum 200 Hz
Signal evaluation	1x
Counter resolution	8-bit
Input delay	typically 0,2 ms
Number of ...	1 on solar module
Connection technology	3-pin Phoenix RM 3.5 mm

Specifications for the Digital Outputs: Relay output - 230 V AC 1 A / or 3 A

Output voltage	230 V AC	
Max. Output current	1 A output current	3 A output current
Number on the heating circuit module	2	1
Number on the buffer module	2	1
Amount on solar module	0	2
Relay types	normally open	
Relays	RT 314024	
Switching range	16.8-30 V DC	
Switching current	typically 9 mA at +24 V	
Switching time	< 10 ms	
Switching power	see data sheet: Tyco Schrack RT1 series	
Fuse	5 AT	
Connection technology	3-pin Phoenix RM 5.08 mm 3 A relay output 4-pin Phoenix RM 5.08 mm 1 A relay output (or 3 A on solar module)	

Specifications for the 230 V AC / 1.5 A TRIAC output

Output voltage	230 V AC
Max. Output current	1.5 A output current
Number of ...	1 (solid state relay)
Connection technology	1x 3-pin. Phoenix RM 5.08 mm

PT1000 Analog Output Specifications

Number of channels	Heating circuit module: 2 Buffer module: 3 Solar module: 2	Heating circuit module: 0 Buffer module: 0 Solar module: 2	Expansion controller: 1
Sensor type	PT1000 (Ohmic temperature sensor)		
Measurement range	-10 to +120 °C	-50 to +200 °C	-50 to +70 °C
Sensor range	960.86 -1460.68	803.06-1758.56	803.06-1270.75
Resolution	0.2 °C	1.0 °C	0.2 °C
Measurement precision	±0,5 °C	±1 °C	±0,5 °C
Measurement value	14-bit		
Input resistance	10 KOhm		
Input filter	100 ms		
Connection technology	2-pin Phoenix RM 3.5 per PT1000 input		

Terminal Requirements

Connection technology	<p>Connector terminals are not included in delivery!</p> <p>Screw and/or spring terminals are required:</p> <ul style="list-style-type: none">3x 3-pin MSTB 2.5/3-ST-5.08 Phoenix contact plug with RM 5.08 screw terminals1x 4-pin MSTB 2.5/4-ST-5.08 Phoenix contact plug with RM 5.08 screw terminals3x 2-pin MC 1.5/2-ST-3.5 Phoenix contact plug with RM 3.5 screw terminals
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Article Number and Miscellaneous

Article number	05-895-534
Hardware version	1.x

Environmental Conditions

Storage temperature	-20 ... +70 °C
Operating temperature	0 ... +60 °C
Humidity	0-95 %, uncondensed
EMV stability	according to EN 61000-6-2:2001
Shock resistance	EN 60068-2-27 150 m/s ²

Notes