

profITEMP™

HOT RUNNER DIAGNOSIS DEVICE

- » For complete and professional diagnosis of the condition of the heaters and sensors, as well as wiring of a hot runner
- » Device tailored to the requirements of tool makers, mould makers and maintenance departments
- » No specialist electrical knowledge required to carry out diagnosis
- » Scope of functions reduced to the essentials
- » Easy to use, the user interface is supported in 15 languages
- » Diagnostic result is documented as a PDF file on a USB flash drive
- » Easy maintenance - the zone fuses are accessible from the outside
- » Can also be used for heating and preheating of the hot runner in three operation modes (controlled, manual, guided)



FUNCTION MOLDCHECK (DIAGNOSIS)

- » The MoldCheck runs fully automatically.
- » During the MoldCheck, the status of the zones to be checked is clearly visible at all times.
- » The MoldCheck detects
 - › Non-existent or defective thermal sensors ('sensor break')
 - › Thermal sensor connected with incorrect polarity ('sensor polarity')
 - › Short-circuit in the thermal sensor cables ('sensor short circuit')
 - › Short circuit in the heating circuit
 - › The partial or complete failure of a heater
 - › Residual currents
 - › Interruptions in the heating or sensor wires in the connecting cable from the hot runner to the profITEMP™
 - › Incorrectly arranged heaters to thermal sensors
- » For each error, the operator receives possible causes and detailed correction tips.
- » The MoldCheck result can be saved as a PDF file on a USB flash drive.

FUNCTION HEATING MODE

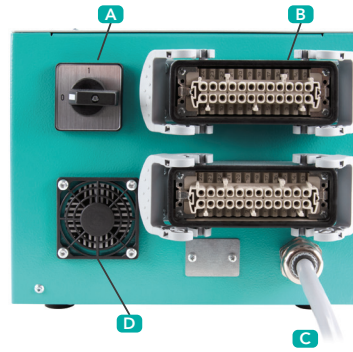
- » For preheating the hot runner and checking its function in the heated state.
- » Safety shutdown after a certain operating time, therefore not intended for use as a hot runner controller under production conditions.
- » The type of heating can be selected per zone:
 - › Regulated to an adjustable temperature set point value
 - › Manual setting of the heating output (manual mode)
 - › Output of the heating signal connected to a parallel zone (guide zone)
- » During the heating process, the process data as well as errors of all zones are visible in detail at any time.

OVERVIEW



- A USB port
- B Ethernet connection
- C 7" touch screen

- D Heater fuses
- E Control fuse



- A Power supply switch
- B Mould connection

- C Mains connection
- D Fan

*MOULD CONNECTION PIN ASSIGNMENT

Pin assignment MEU/001

	Con- nector	Sensor		Heater	
		-	+	L	N
Zone 1	XA1	1	2	3	4
Zone 2	XA1	5	6	7	8
Zone 3	XA1	9	10	11	12
Zone 4	XA1	13	14	15	16
Zone 5	XA1	17	18	19	20
Zone 6	XA1	21	22	23	24
Zone 7	XA2	1	2	3	4
Zone 8	XA2	5	6	7	8
Zone 9	XA2	9	10	11	12
Zone 10	XA2	13	14	15	16
Zone 11	XA2	17	18	19	20
Zone 12	XA2	21	22	23	24

Pin assignment 121

	Con- nector	Sensor		Heater	
		-	+	L	N
Zone 1	XA1	14	13	1	2
Zone 2	XA1	16	15	3	4
Zone 3	XA1	18	17	5	6
Zone 4	XA1	20	19	7	8
Zone 5	XA1	22	21	9	10
Zone 6	XA1	24	23	11	12
Zone 7	XA2	14	13	1	2
Zone 8	XA2	16	15	3	4
Zone 9	XA2	18	17	5	6
Zone 10	XA2	20	19	7	8
Zone 11	XA2	22	21	9	10
Zone 12	XA2	24	23	11	12

Pin assignment 522

	Con- nector	Sensor		Con- nector	Heater	
		-	+		L	N
Zone 1	XA1	13	1	XA2	1	13
Zone 2	XA1	14	2	XA2	2	14
Zone 3	XA1	15	3	XA2	3	15
Zone 4	XA1	16	4	XA2	4	16
Zone 5	XA1	17	5	XA2	5	17
Zone 6	XA1	18	6	XA2	6	18
Zone 7	XA1	19	7	XA2	7	19
Zone 8	XA1	20	8	XA2	8	20
Zone 9	XA1	21	9	XA2	9	21
Zone 10	XA1	22	10	XA2	10	22
Zone 11	XA1	23	11	XA2	11	23
Zone 12	XA1	24	12	XA2	12	24

TECHNICAL SPECIFICATION

Mains supply

400VAC (~N = 230VAC) 3~/N/PE, 50/60 Hz

Mains connection

CEE 32 A, 3m

Operation and display

7" IPS panel with capacitive touch, integrated in the front of the device

Sensor inputs

Thermocouple Fe/CuNi type J (-35...500°C) with internal reference junction
Measuring accuracy < 1K
Cable length to thermocouple < 30m

Heating outputs

Quantity: 12
230 VAC/15 A (3450 W) at 20 °C environment
230 VAC/14,5 A (3335 W) at 45 °C environment (derating fuse)

Fuse protection with superfast fuses FF 16 A, 6.3 x 32 mm (SIBA type 7012540.16 FF)

Cable length to heaters < 30m

Mould connection

Plug: Wieland WI 70.300.2440.0 (surface-mounted housing with double locking latches, 24 contacts, size 24B)
Assignment: PSG/Meusburger Standard (001)

Heater current measurement

Range 0 to 16 A per power output
Resolution 0.1 A (accuracy +/- 0.1A)

Leakage current measurement

Measuring range 0...100 mA
resolution 1 mA

Interfaces

1 x USB type A (for storage of MoldCheck files, firmware update)
1 x Ethernet RJ45, IP address adjustable (for service purposes)

Electr. safety / EMC

Electrical safety EN 61010-1: 2020-03
EMC interference emission according to EN 61000-6-4, interference immunity according to EN 61000-6-2
Overvoltage category II
Protection class I
Protection class IP20

Ambient temperature

Operation 0...45 °C
Transport and storage -20...70 °C

Climatic application class

Relative humidity < 75 % annual average, no condensation

Mechanics

Dimensions: 215 x 260 x 400 (H x W x D in mm)
Weight: 9.8 kg

DEVICE VERSIONS

Product code	*Mould connection pin assignment
RH 1100/12/001/WI24B/32A	MEU/001
RH 1100/12/121/WI24B/32A	121
RH 1100/12/522/WI24B/32A	522

ACCESSORIES

Product code	Comment
RHZ 5000/500/16/FF	Fuses SIBA Type 7012540.16 FF
RHZ 2000/3/001/WI24B/S/M/001/WI24B/B/S	Connection cable Heating/Thermocouple, Pin assignement MEU/001, 3 m
RHZ 2000/6/001/WI24B/S/M/001/WI24B/B/S	Connection cable Heating/Thermocouple, Pin assignement MEU/001, 6 m
RHZ 2000/3/121/WI24B/S/M/121/WI24B/B/S	Connection cable Heating/Thermocouple, Pin assignement MEU/001 auf 121, 3 m
RHZ 2000/6/121/WI24B/S/M/121/WI24B/B/S	Connection cable Heating/Thermocouple, Pin assignement MEU/001 auf 121, 6 m
RHZ 2100/3/522/WI24B/S/M/522/WI24B/B/S	Connection cable Heating, Pin assignement 522, 3 m
RHZ 2100/6/522/WI24B/S/M/522/WI24B/B/S	Connection cable Heating, Pin assignement 522, 6 m
RHZ 2200/3/522/WI24B/B/M/522/WI24B/S/S	Connection cable Thermocouple, Pin assignement 522, 3 m
RHZ 2200/6/522/WI24B/B/M/522/WI24B/S/S	Connection cable Thermocouple, Pin assignement 522, 6 m
RHZ 2100/3/522/WI24B/S/M/620/HA16B/B/S	Connection cable Heating, Pin assignement 522 auf 620 (EUROMAP 14), 3 m
RHZ 2100/6/522/WI24B/S/M/620/HA16B/B/S	Connection cable Heating, Pin assignement 522 auf 620 (EUROMAP 14), 6 m
RHZ 2100/3/522/WI24B/B/M/620/HA16A/S/S	Connection cable Thermocouple, Pin assignement 522 auf 620 (EUROMAP 14), 3 m
RHZ 2100/6/522/WI24B/B/M/620/HA16A/S/S	Connection cable Thermocouple, Pin assignement 522 auf 620 (EUROMAP 14), 6 m
RHZ 1000/S	Trolley profiTEMP
RHZ 3000/32A/16A	CEE adapter 16 A plug auf 32 A socket

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