

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)



FEATURES

- » 12 zones
- » Extremely compact housing dimensions
- » Low weight: profiTEMP™ can be easily transported
- » Operation is via a high-contrast 7" touch screen
- » Almost all nozzles and manifolds can be controlled with the 15 amp heating outputs

DEVICE VERSIONS

Designation	Product code	Number of zones	Pin assignment	Mains connection
profiTEMP™/12/001	89182001200000-001	12	001 Meusburger/PSG	CEE 32A

ACCESSORIES

Designation	Product code	Comment
RHZ 5000/4500/16FF	030612	Fuses SIBA Type 7012540.16 FF
RHZ 7000/24/3/001-121	040024012030	Adapter cable pin assignment 001 to 121, Length 3 m
RHZ 7000/24/6/001-121	040024012060	Adapter cable pin assignment 001 to 121, Length 6 m
RHZ 3000/32A/16A		Adapter mains supply CEE32A-CEE16A

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 TM
 - › 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.

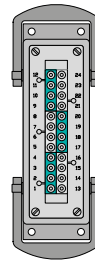
CONNECTION

XA1

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

XA2

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

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