

meusburger

Standards for your success.

HOT RUNNER CONTROL

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
250.0 °C	250.3 °C	250.1 °C	250.0 °C	250.0 °C	250.0 °C
250.0 °C	250.0 °C	250.0 °C	250.0 °C	250.0 °C	250.0 °C
49.2	49.6	49.5	49.3	49.9	49.0
Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	Zone 12
250.0 °C	250.0 °C	250.0 °C	250.0 °C	250.0 °C	250.0 °C
250.0 °C	250.0 °C	250.0 °C	250.0 °C	250.0 °C	250.0 °C
48.9	49.2	50.6	49.9	50.0	49.1
Zone 13	Zone 14	Zone 15	Zone 16	Zone 17	Zone 18
248.9 °C	250.6 °C	250.6 °C	250.0 °C	250.0 °C	250.0 °C
250.0 °C	250.0 °C	250.0 °C	250.0 °C	250.0 °C	250.0 °C
50.9	49.4	49.3	50.0	50.0	49.3
Zone 19	Zone 20	Zone 21	Zone 22	Zone 23	Zone 24
250.0 °C	250.6 °C	250.0 °C	250.0 °C	250.0 °C	250.0 °C
250.0 °C	250.0 °C	250.0 °C	250.0 °C	250.0 °C	250.0 °C
49.9	49.2	49.6	49.3	49.9	49.9

meusburger

profiTEMP+

HOT RUNNER CONTROL





We provide you with standardised as well as customised control systems for your hot runner applications. From packaging, caps & closures to automotive and medical technology – with us you will find the right solutions and innovative products across all industries. Through durable and easy-to-maintain products, short lead times and fast support, we guarantee lasting reliability.

Whether series products or customised solutions – our field engineers will be happy to assist you personally on site.



You can find more information here:

www.meusburger.com/hot-runner-control

OUR PRODUCTS AT A GLANCE



profiTEMP+ hot runner controller

Page 6

The profiTEMP+ hot runner controller features state-of-the-art technology and space-saving design.



profiTEMP IM hot runner controller

Page 10

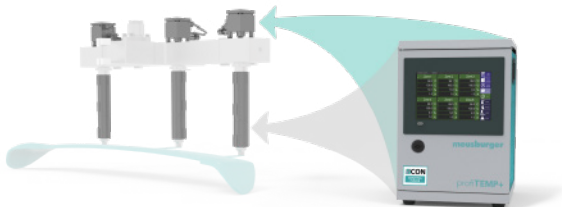
The new hot runner controller is a compact, handy and powerful hot runner control unit which offers many advantages especially for injection moulders.



profiTEMP TM hot runner diagnosis device

Page 12

The new diagnosis device for mould makers is specially designed for inspecting as well as preheating and heating up the hot runner.



profiTEMP+ VCON cascade control unit

Page 14

Discover the profiTEMP+ VCON for even more precise control of the valve pins during injection moulding.



TEMPBOX hot runner controller

Page 16

The TEMPBOX can be used to control moulds with few zones, as well as in other areas of application.



TCBOX - Digital temperature interface for hot runner controllers

Page 17

The innovative TCBOX eliminates the need for thermocouple cables from the hot runner system to the control unit.



Accessories

Page 18

Various spare parts and accessories such as the device cart and connecting cables complete our product range.



Customer service and technical support

Page 20

We are your partner for all enquiries and offer you worldwide service on site.

profiTEMP+ HOT RUNNER CONTROLLER



Highest control performance combined with a high degree of standardisation

The profiTEMP+ hot runner controller features state-of-the-art technology and space-saving design. Thanks to its control mode that is specifically optimised for the purpose of controlling hot runners, the profiTEMP+ can be used even for demanding applications.

Overview of the profiTEMP+ series



Desktop
6, 12, 18, 24 zones



Desktop
30, 36, 42, 48 zones



Tower
54 to 120 zones

Tower
54 to 192 zones

6 to 48 control zones in 6-zone grid

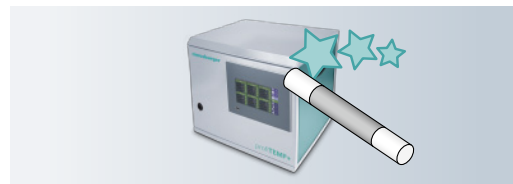
- » Housing versions with stable carrying handles
- » Operation via 7" touch screen
- » Immediately available from stock with four of the most widely used mould connection types

54 to 192 control zones in 6-zone grid

- » Rollable housing with handles
- » Operation via 10" or IPC 15" touch screen

profiTEMP+ configurator for customised design

Enter your specifications in our online configurator and get a quote for your customised profiTEMP+ within one working day. Of course, we are also happy to offer you personal support.



More information in our film:

www.meusburger.com/profitempplus-en

ADVANTAGES OF profiTEMP+

Setup Assistant

This function guides the user step by step through all relevant settings in order to put the controller into operation on a new mould as quickly as possible.

High-precision, fast control

The setting values for the control algorithm are calculated fully automatically during heating. This ensures optimum quality of the produced parts even for the most demanding applications.

Heating functions

With the help of functions such as the automatic ramp, Heat'n'Dry, relay heating or start-up mode, each hot runner is gradually brought to the optimal temperature.

Flexible combination options

Two controllers can be combined by means of pairing mode. This makes it easy to increase the total number of control zones.

Intelligent mould inspection

The MoldCheck function detects wiring mistakes in sensor and heating circuits even before the mould is put into operation, thereby increasing operational safety.

Integrated data interfaces

The profiTEMP+ features a wide range of data interfaces and protocols. OPC 40082-2 is also supported for standardised data exchange between the control unit and the injection moulding machine.





Multi-touch screen

The devices are available with a 7" or 10" touch screen, or upon request with an IPC 15" touch screen.

Full process control

Heating current monitoring and short-circuit as well as leakage detection ensure error-free processes.

Fault signalling

Current alarms are clearly listed and displayed as plain text on the screen. In addition, the potential-free alarm outputs on the rear side of the device enable external monitoring.

Mould management

Mould-specific settings can be conveniently saved. This can even be done fully automatically when using the optional mould identification.

Behaviour in the event of sensor failure

In the event of sensor failure, functions such as leading zone operation ensure controlled continued heating and ultimately help to reduce downtimes.

Smart Power Limitation – output limitation

This function prevents the heating power required by the heating outputs from exceeding the available connecting power.

profiTEMP IM HOT RUNNER CONTROLLER



Compact hot runner controller for high requirements

The profiTEMP IM hot runner controller features maximum process reliability and easy operation. Thanks to the range of functions and continual process monitoring, the controller ensures reliable operation during your injection moulding process. With its high-precision control mode it can be used in any hot runner system.

ADVANTAGES OF profiTEMP IM



High-precision, fast control

The setting values for the control algorithm are calculated fully automatically during heating. The fast control algorithm shortens the heating phase and increases the operating time.

Heating methods

With the help of four selectable heating methods, every hot runner can be optimally heated to the correct temperature.

Customisable

The five selectable operating modes ensure every zone can be optimally adapted to its conditions. Heating current monitoring and short-circuit as well as leakage detection ensure error-free processes.

Error signalling

Current alarms are clearly listed and displayed on the screen. In addition, the potential-free alarm outputs on the rear side of the device enable external monitoring.

Mould management

Mould-specific settings can be easily saved in the device memory or on a USB stick.

Smart Power Limitation – output limitation

The exact limitation of the power output to the heating elements protects the mains connection from being overloaded.

Future-proof

Software updates are easy to install using the USB port.

profitemp TM HOT RUNNER DIAGNOSIS DEVICE



Professional diagnosis for every hot runner

This exclusive diagnosis device enables a complete and professional diagnosis of the condition of the heaters and thermocouples as well as the wiring of a hot runner. Tailored to the requirements of mould makers as well as maintenance and service departments, it offers even more useful features.

ADVANTAGES OF profiTEMP™



Intelligent error detection

The profiTEMP™ not only identifies errors on the hot runner, but also offers professional solutions to fix the problem.

Flexibility

Thanks to its ultra compact housing dimensions and light weight it can be easily moved about and put to use where needed.

Intuitive

The navigation and control are intuitively designed to ensure easy operation with almost no initial training or electrical expertise.

Interface

The USB port on the front of the device means diagnosis results can be easily loaded onto a USB stick. The newest software can be easily installed as well.

Preparation

The profiTEMP™ offers a pre-heating and heating-up function in three operating modes (controlled, manual, guided) for maintenance operations on the hot runner or to get production started faster.

Maintenance

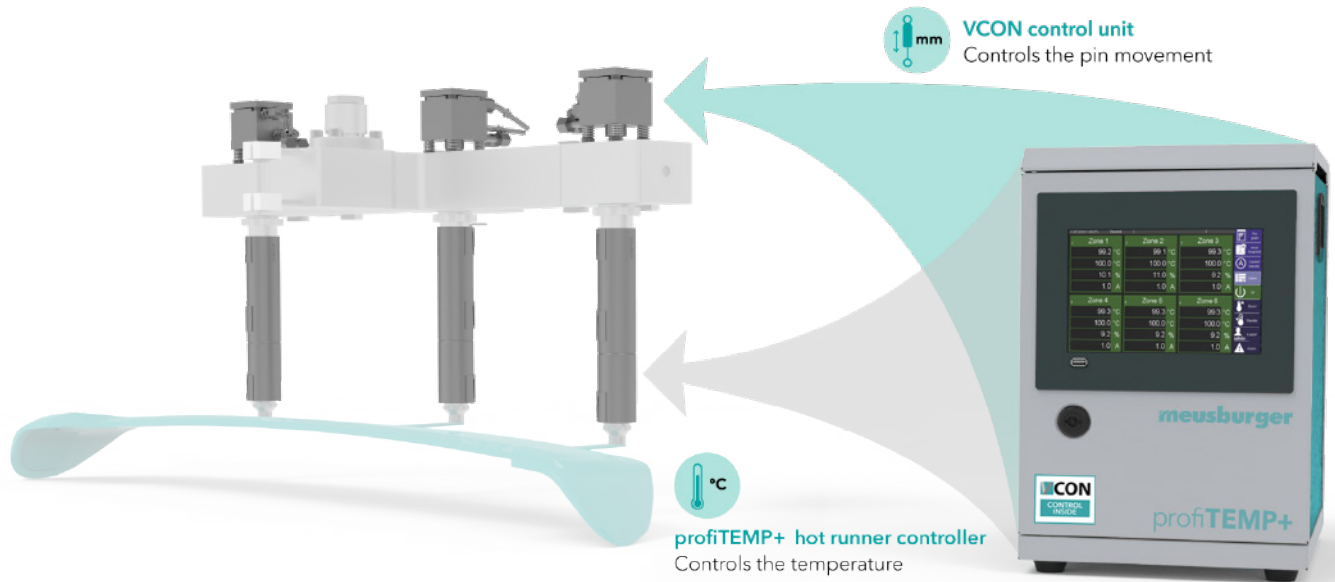
The external fuses located on the side of the device can be easily changed in case of fuse failure.

profiTEMP+VCON CASCADE CONTROL UNIT

Precise valve gate control

The profiTEMP+ VCON cascade control unit enables extremely accurate control of the valve pins during cascade injection.

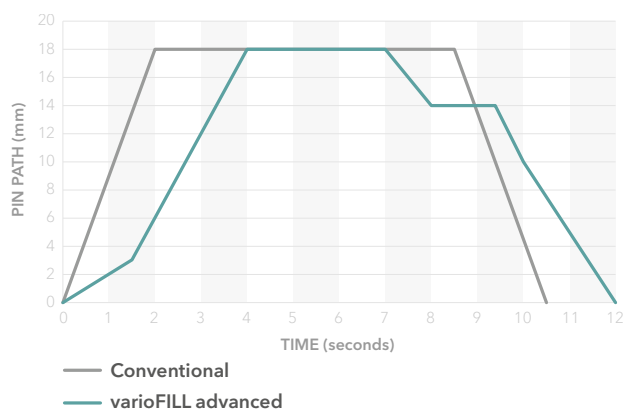




Characteristics:

- » Up to 32 control circuits in a 4-channel grid
- » Stand-alone or can be combined with the profITEMP+ hot runner controller in one housing
- » Can control up to three opening / closing movements per cycle
- » Clear status display of all processes
- » Integrated cycle counter
- » Optionally available with end position monitoring
- » The 'varioFILL advanced' operating mode enables exact control of the opening and closing speeds as well as the positioning of each individual valve pin

Find more information at:
www.meusburger.com/profitemp-vcon-en



TEMPBOX HOT RUNNER CONTROLLER



The TEMPBOX is ideal for heating with resistive loads. Its application area is not limited to just hot runner control.

- » Space-saving due to small dimensions
- » Ideal for applications with one or two control zones
- » Process safety through monitoring of process data and control circuit
- » Customised design according to mould connection specification
- » Clear and user-friendly operation



Hot runner controller for 1 zone



Hot runner controller for 2 zones

TCBOX - DIGITAL TEMPERATURE INTERFACE FOR HOT RUNNER CONTROLLERS



With the help of the TCBOX thermo lines between the mould and the controller can be eliminated. The TCBOX with 12 thermocouple measuring inputs can be placed directly on the connection box of the injection mould.

- » Ensures a tidy injection moulding area and clarity in the system configuration
- » Expandable up to 192 zones
- » All the temperature values in the control zones are digitalised on the mould and sent via a data cable to the hot runner controller
- » Minimal costs and minimal space requirements mean maximal savings
- » The reduction in the number of connecting cables simplifies mould changes
- » Enables a more stable and safe transmission of temperature data
- » Features additional functions (integrated cycle counter, ID for mould recognition, saving of maximum temperature value)



Further information and data sheets on this product can be found at:
www.meusbarger.com/tcbox-en

CONNECTING CABLES & ACCESSORIES



Connecting cables



In addition to the standard pin assignments available in the web shop, we offer further pin assignments as well as spare parts on request.

For all plug parts and cables, we rely on renowned suppliers who provide durable and robust components which are suitable for use in industrial environments.

CEE adapters



With the CEE adapters, standard controllers can be used without modification if the correct mains connection is not already provided in production.

Wide range of accessories

The various accessories available provide additional functions for the devices, facilitate their operation or can be used as spare parts in hot runner controllers.



profiTEMP device cart
for profiTEMP IM, profiTEMP TM and
profiTEMP+



Plug parts



Heater and
thermocouple cables



Fuses



Fuse holders



Solid state relays



Mains plugs

WORLDWIDE SERVICE & CONSULTING ON SITE



Individual support throughout the entire process

Our team of field engineers and our technical internal sales and service departments provide fast and comprehensive support. It is our top priority to accommodate you with personal support through professional and specific consultation as well as to provide you with the data and documentation you need and to offer you reliable after-sales support.

With remote maintenance software, we can react quickly to your questions and control your computer remotely.

Maintenance & repair

We offer you a clear cost estimate. All hot runner controller systems we receive for repair are tested and returned to you along with a service report within just a few days, thanks to our short lead times.

- » Maintenance and repair are done on our premises; if required, we provide a service check at your facility
- » Standardised components / spare parts available from stock
- » Customer training in the handling and operating of hot runner controllers on request

REACH YOUR GOAL QUICKLY



The Meusburger Portal

You will find various standard devices and the matching connection cables in our web shop. These are specified by the number of zones, the mains connection and the particular push-in connectors for heater and thermocouple. The standard devices are suitable for a wide range of applications and available from stock.



Find further information at:

www.meusburger.com/hot-runner

Workshops & training

Our team offers practical training through workshops at your facility or online. Possible training topics are for example: installation, operation, maintenance and error diagnosis.

Downloads

Product information such as data sheets, manuals, language files or software can be found online.



Download product information here:

www.meusburger.com/media-downloads-en

96,000 PRODUCTS – THE CHOICE IS YOURS



Hot runner systems

We offer both customised and standardised hot runner systems. With our configurator for hot runner moulds, a standardised mould base including hot runner manifold and manifold plate can be created with just a few mouse clicks. A custom request can be placed just as easily via an online form.



Machine-integrated hot runner control

Are you looking for an injection moulding machine with integrated hot runner control? Then our profiTEMP system is just the thing. Its integration into the machine and its connection to the machine control system work with virtually all injection moulding machine brands.



Mould bases

A large range of pre-drilled and non-drilled plates in combination with a sophisticated system and convenient product advantages form the basis of high-precision, premium-quality injection moulds.



Components

Unique components with sophisticated details let you break new ground. From guides and slide systems to electrical, hydraulic and hot runner components - be inspired by our wide selection of over 19,000 components.



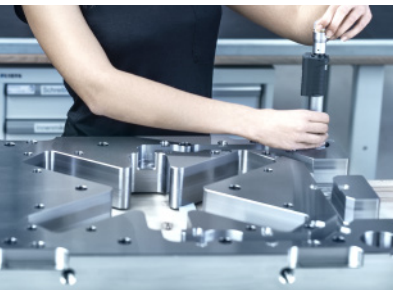
Standard plates

The largest range of standardised plates – round or square – in different versions offer maximum flexibility. All plates are manufactured to tight tolerances as standard and the thickness is precisely ground. If you cannot find what you are looking for in our standard range, don't worry: we also offer plates in customised dimensions.



Standard bars

Versatile bars in various shapes, dimensions and material grades are suitable for the production of inserts, mould cores and slides. Save time with already hardened tool steel in the form of blocks for eroding and much more.



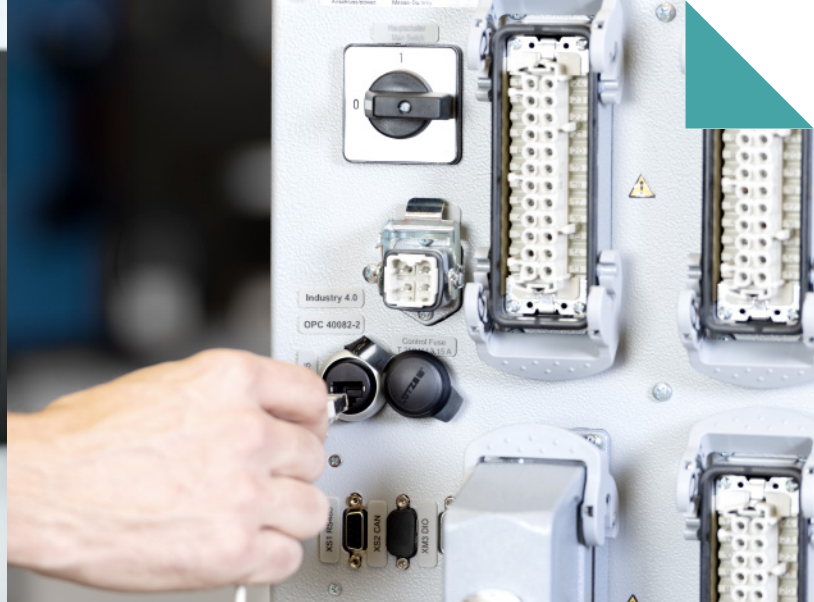
Machining

Whether it is milling, hard milling, deep hole drilling, grinding or flame cutting – we offer short lead times for customised solutions. You can fully rely on our expertise and experience when it comes to special machining.



Workshop equipment

Out of the vast range on the market, we have compiled an ideal selection especially for mould and die making. This allows you to save time and money when you compare, select and order high-quality products for daily use in the workshop and in production.



FULL-RANGE
SUPPLIER



CONTINUOUS
AVAILABILITY



CONSISTENT
HIGH QUALITY



ONLINE
SERVICE



PERSONAL
CONSULTATION

ORDERING – THE WAY YOU LIKE IT BEST!



Web shop
www.meusburger.com



Offline shop
install and get started!



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