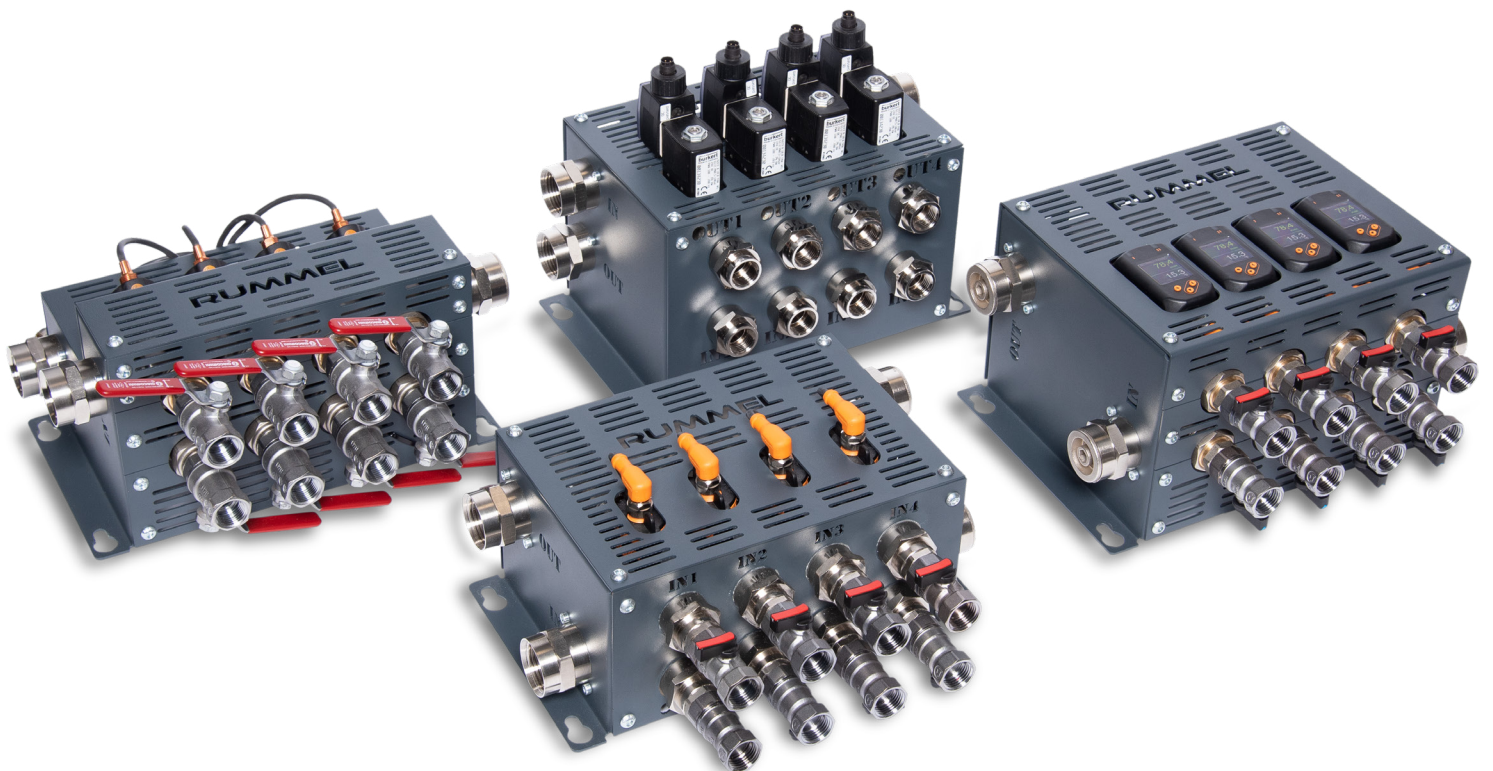


MULTI-CIRCUIT DISTRIBUTION SYSTEMS



ELECTRONIC MULTI-CIRCUIT DISTRIBUTION SYSTEM

for flow control and temperature monitoring up to 120°C

Easy integration into the injection molding machine as well as maximum process control of the temperature control circuits

General information:

- Multi-circuit distribution system with integrated measurement of the flow and temperature in multiple, separate circuits
- Regulation of the individual circuits for controlled and continuous flow
- Robust and compact design in brass/stainless steel for temperatures up to 120°C
- Monitoring of the flow, temperature, and pressure
- Visualization terminal with touch screen display and graphic visualization
- Collection and evaluation of process data, documentation and storage of the process parameters, as well as parameterization and condition monitoring



Image may differ from the actual product!

The parallel distribution of the functional multi-circuit distribution system for electronic flow measurement and temperature monitoring centrally distributes cooling and heating media between several circuits and is easy to integrate into injection molding machines.

The multi-circuit distribution system is used to measure and monitor the volumetric flow rates of liquid media and is characterized by its variability as well as by its compact and robust design. Our modular system allows us to offer you a solution that meets your specific needs and is easy to install.

In addition to its unique design, the low-maintenance multi-circuit distribution system is characterized by high measurement accuracy, as well as detailed monitoring of process information and parameters, and therefore ensures the highest possible process reliability. A large number of functions are available to the user, for example process documentation, triggering of alarms when limit values are reached, and the ability to save the mold parameters.

The measuring and monitoring function of the multi-circuit distribution system can be designed to meet the requirements of customer-specific applications. Through a controlled and continuous flow of water, the distribution system ensures precise regulation in all types of applications and all temperature ranges. The distribution system is suitable for open and closed circuits and for temperatures up to 120°C.

Measurement principle:

Vortex inline flow measurement with integrated PT1000 temperature monitor

The alternative: Vortex sensor instead of an impeller. Eddies used as the basis for flow measurements

A bluff body installed in the Pitot tube causes the flowing medium, depending on its velocity, to form alternating eddies that are measured by a piezoceramic sensor. For a known cross-sectional area, the number of vortices shed can be used to determine the flow rate. This method of measuring the flow rate, which is based on the Karman Vortex Principle, is almost completely independent of pressure and temperature fluctuations in the medium. The current flow rate is output in the form of a current signal (4...20 mA). A PT1000 resistance thermometer is used to measure the temperature. The sensors used are mounted in the parallel distribution in the return line of each circuit.

Subject to errors, omissions, and technical changes!

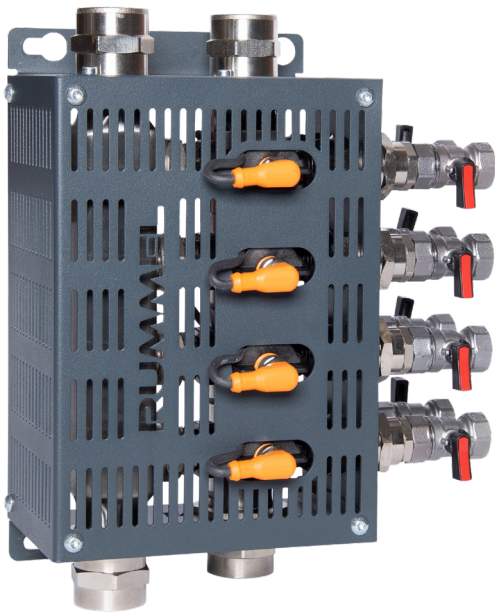


Image may differ from the actual product!

Advantages:

Economic Advantages:

- Improves the transfer of heat on the mold because hose bridges are not necessary
- Provides a clear indication of contaminants in the circuit and triggers an alarm before rejects are produced
- Reduces the pressure loss due to its lack of hose bridges
- Increases the flow of water
- Reduces the overall cost of installation and the energy consumption
- Exact localization of the source of the problem since the zones are separated
- Ability to influence specific segments of the mold
- Regulates and monitors each temperature control circuit in the mold
- Increases the stability and traceability of the process
- Shorter setup and cycle times

Technical Advantages:

- Measurement and monitoring of the flow, temperature, and pressure
- High measurement accuracy, high functional reliability
- Water distributed close to the mold as well as short hoses
- The system is easy to integrate into machines and systems
- Insensitive to pressure surges
- Compact and robust design
- High volumetric flow rate
- Suitable for open and closed circuits

Controller:

The control unit enables measurement and monitoring as well as the display of an evaluation of all process parameters. The high resolution touch screen display with a one-of-a-kind visualization concept.

- Choice of a 4.3" or 7" color display with touch screen
- High resolution display with a one-of-a-kind visualization concept
- Visualization and monitoring of the flow, temperature, and pressure
- Visualization and evaluation of all process parameters
- Process data acquisition available for all parameters
- Display of the limit values with detailed text and alarm messages
- Process data logging with a logging interval
- Ability to save the mold parameters including administration of the mold data as well as an alarm history
- Alarms are reported to the injection molding machine
- USB interface to transfer data
- Interfaces to the IMM: Ethernet, RS-232, RS-485, TTY 20 mA, OPC/UA, Profinet, Modbus



Images may differ from the actual product!

Technical data:

Circuit control: Manual shut-off ball valves or 2/2 solenoid valves
Measurement principle: Vortex – piezoceramic sensor element
Measurement range: 0.9...15 l/min. or 1.8...32 l/min.
Connections: Main distribution flow, 1" inner thread - mold circuit 1/2" inner thread
Modular design: Expansion levels 2, 3, 4, 5, 6, 8, 10, and 12 station manifold distributor, cascadable up to 100 zones.

Materials: Parts in contact with media made of brass and stainless steel, Seal: FKM (Viton)
Medium: Water
Max. temperature: 120°C
Max. operating pressure: 10 bar

Subject to errors, omissions, and technical changes!

ELECTRONIC MULTI-CIRCUIT DISTRIBUTION SYSTEM

for flow control and temperature monitoring up to 100°C

Easy integration into the injection molding machine as well as maximum process control of the temperature control circuits

General information:

- Multi-circuit distribution system with integrated measurement of the flow and temperature in multiple, separate circuits
- Robust and compact design in brass/stainless steel for temperatures up to 100°C
- Reliable collection of flow and temperature data
- With switched output or frequency output and IO-Link
- Display can be rotated for optimal orientation
- Easy to read color display with red/green change indicator
- Can be combined with a visualization terminal with touch screen display and graphic visualization
- Collection and evaluation of process data, documentation and storage of the process parameters, as well as parameterization and condition monitoring



Image may differ from the actual product!

The parallel distribution of the functional multi-circuit distribution system for electronic flow measurement and temperature monitoring centrally distributes cooling and heating media between several circuits and is easy to integrate into injection molding machines.

The multi-circuit distribution system is used to measure and monitor the volumetric flow rates of liquid media and is characterized by its variability as well as by its compact and robust design. Our modular system allows us to offer you a solution that meets your specific needs and is easy to install.

In addition to its unique design, the low-maintenance multi-circuit distribution system is characterized by high measurement accuracy, as well as detailed monitoring of process information and parameters, and therefore ensures the highest possible process reliability. A large number of functions are available to the user, for example process documentation, triggering of alarms when limit values are reached, and the ability to save the mold parameters.

The measuring and monitoring function of the multi-circuit distribution system can be designed to meet the requirements of customer-specific applications. Through a controlled and continuous flow of water, the distribution system ensures precise regulation in all types of applications and all temperature ranges. The distribution system is suitable for open and closed circuits and for temperatures up to 100°C.

Measurement principle:

Vortex inline flow measurement with integrated PT1000 temperature monitor

A bluff body installed in the Pitot tube causes the flowing medium, depending on its velocity, to form alternating eddies that are measured by a piezoceramic sensor. For a known cross-sectional area, the number of vortices shed can be used to determine the flow rate. This method of measuring the flow rate, which is based on the Karman Vortex Principle, is almost completely independent of pressure and temperature fluctuations in the medium. The current flow rate is output in the form of a current signal (4...20 mA). A PT1000 resistance thermometer is used to measure the temperature. The sensors used are mounted in the parallel distribution in the return line of each circuit.

Funktionen:

- Display can be rotated for optimal orientation
- Visualization of the flow and temperature in one display
- IO-Link interface
- Easy to read color display with red/green change indicator
- Can be used with or without a 4.3" or 7" touch screen display
- IO-Link with six selection options

OUT1/IO-Link: 2 selection options

- Switching signal for flow rate limit value
- Or frequency signal for flow rate

OUT2: 4 selection options

- Switching signal for flow rate limit value
- Or switching signal for temperature limit value
- Or frequency signal for flow rate
- Or frequency signal for temperature

Subject to errors, omissions, and technical changes!



Image may differ from the actual product!

Advantages:

Economic Advantages:

- Improves the transfer of heat on the mold because hose bridges are not necessary
- Provides a clear indication of contaminants in the circuit and triggers an alarm before rejects are produced
- Reduces the pressure loss due to its lack of hose bridges
- Increases the flow of water
- Reduces the overall cost of installation and the energy consumption
- Exact localization of the source of the problem since the zones are separated
- Ability to influence specific segments of the mold
- Regulates and monitors each temperature control circuit in the mold
- Increases the stability and traceability of the process
- Shorter setup and cycle times

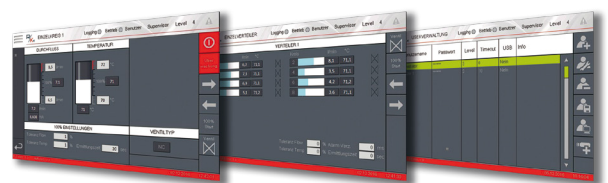
Technical Advantages:

- Measurement and monitoring of the flow, temperature
- High measurement accuracy, high functional reliability
- Water distributed close to the mold as well as short hoses
- The system is easy to integrate into machines
- Insensitive to pressure surges
- Compact and robust design
- High volumetric flow rate
- Suitable for open and closed circuits

Controller:

The control unit enables measurement and monitoring as well as the display of an evaluation of all process parameters. The high resolution touch screen display with a one-of-a-kind visualization concept.

- Choice of a 4.3" or 7" color display with touch screen
- High resolution display with a one-of-a-kind visualization concept
- Visualization and monitoring of the flow, temperature, and pressure
- Visualization and evaluation of all process parameters
- Process data acquisition available for all parameters
- Display of the limit values with detailed text and alarm messages
- Process data logging with a logging interval
- Ability to save the mold parameters including administration of the mold data as well as an alarm history
- Alarms are reported to the injection molding machine
- USB interface to transfer data
- Interfaces to the IMM: Ethernet, RS-232, RS-485, TTY 20 mA, OPC/UA, Profinet, Modbus



Images may differ from the actual product!

Technical data:

Circuit control: Manual shut-off ball valves or 2/2 solenoid valves
Measurement principle: Vortex – piezoceramic sensor element
Measurement range: 1.0...20 l/min. or 2.0...40 l/min.
Connections: Main distribution flow, 1" inner thread - mold circuit 1/2" inner thread
Modular design: Expansion levels 2, 3, 4, 5, 6, 8, 10, and 12 station manifold distributor, cascable up to 100 zones.

Materials: Parts in contact with media made of brass and stainless steel, Seal: FKM (Viton)
Medium: Water
Max. temperature: 100°C
Max. operating pressure: 10 bar

Subject to errors, omissions, and technical changes!

ELECTRONIC MULTI-CIRCUIT DISTRIBUTION SYSTEM

for flow control and temperature monitoring up to 120°C

Intelligent temperature control through automatic proportional control of the flow and temperature

General information:

- Multi-circuit distribution system with integrated measurement of the flow and temperature in multiple, separate circuits
- Individual and on-demand control of each temperature control circuit using electrical proportional valves
- Automatic regulation of the individual circuits for controlled and continuous flow
- Robust and compact design in brass/stainless steel for temperatures up to 120°C
- Monitoring of the flow, temperature, and pressure
- Visualization terminal with touch screen display and graphic visualization
- Collection and evaluation of process data, documentation and storage of the process parameters, as well as parameterization and condition monitoring

The parallel distribution of the functional multi-circuit distribution system for electronic flow measurement and temperature monitoring with active control centrally distributes cooling and heating media between several circuits and is easy to integrate into injection molding machines.

The multi-circuit distribution system is used to measure and control the volumetric flow rates of liquid media and is characterized by its variability as well as by its compact and robust design. Our modular system allows us to offer you a solution that meets your specific needs and is easy to install.

In addition to its unique design, the low-maintenance multi-circuit distribution system is characterized by high measurement accuracy, precise control, as well as detailed monitoring of process information and parameters, and therefore ensures the highest possible process reliability. A large number of functions are available to the user, for example process documentation, triggering of alarms when limit values are reached, and the ability to save the mold parameters.

The control and monitoring function of the multi-circuit distribution system can be designed to meet the requirements of customer-specific applications. Through a controlled and continuous flow of water, the distribution system ensures precise regulation in all types of applications and all temperature ranges. The distribution system is suitable for open and closed circuits and for temperatures up to 120°C.

Measurement principle:

Vortex inline flow measurement with integrated PT1000 temperature monitor

The alternative: Vortex sensor instead of an impeller. Eddies used as the basis for flow measurements

A bluff body installed in the Pitot tube causes the flowing medium, depending on its velocity, to form alternating eddies that are measured by a piezoceramic sensor. For a known cross-sectional area, the number of vortices shed can be used to determine the flow rate. This method of measuring the flow rate, which is based on the Karman Vortex Principle, is almost completely independent of pressure and temperature fluctuations in the medium. The current flow rate is output in the form of a current signal (4...20 mA). A PT1000 resistance thermometer is used to measure the temperature. The sensors used are mounted in the parallel distribution in the return line of each circuit.

Advantages at a glance:

- Cycle can be shortened
- Processes can be monitored
- On-demand, automatic regulation
- Improved quality
- Lower costs



Image may differ from the actual product!

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Image may differ from the actual product!

Controller:

The control unit enables measurement and monitoring as well as the display of an evaluation of all process parameters. The high resolution touch screen display with a one-of-a-kind visualization concept.

- 7" color display with touch screen
- High resolution display with a one-of-a-kind visualization concept
- Status overview with labels for each circuit
- Visualization and monitoring of the flow, temperature, and pressure
- Visualization and evaluation of all process parameters
- Process data acquisition available for all parameters
- Display of the limit values with detailed text and alarm messages
- Process data logging with a logging interval
- Ability to save the mold parameters including administration of the mold data as well as an alarm history
- Alarms are reported to the injection molding machine
- USB interface to transfer data
- Interfaces to the IMM: Ethernet, RS-232, RS-485, TTY 20 mA, OPC/UA, Profinet, Modbus

Technical data:

Circuit control: Electric proportional valves with control electronics
 Method of operation: Automatic flow or temperature control
 Measurement principle: Vortex – piezoceramic sensor element
 Measurement range: 0.9...15 l/min. or 1.8...32 l/min.
 Connections: Main distribution flow, 1" inner thread - mold circuit
 ½" inner thread
 Modular design: Expansion levels 2, 3, 4, 5, 6, 8, 10, and 12 station manifold distributor, cascadable up to 100 zones.

Advantages:

Economic Advantages:

- Improves the transfer of heat on the mold because hose bridges are not necessary
- Provides a clear indication of contaminants in the circuit and triggers an alarm before rejects are produced
- Reduces the pressure loss due to its lack of hose bridges
- Increases the flow of water
- Reduces the overall cost of installation and the energy consumption
- Exact localization of the source of the problem since the zones are separated
- Ability to influence specific segments of the mold
- Regulates and monitors each temperature control circuit in the mold
- Increases the stability and traceability of the process
- Shorter setup and cycle times

Technical Advantages:

- Automatic and individual control of each temperature control circuit using electrical proportional valves
- Measurement and monitoring of the flow, temperature, and pressure
- High measurement accuracy, high functional reliability
- Water distributed close to the mold as well as short hoses
- The system is easy to integrate into machines and systems
- Insensitive to pressure surges
- Compact and robust design
- High volumetric flow rate
- Suitable for open and closed circuits



Images may differ from the actual product!

Materials:

Parts in contact with media made of brass and stainless steel,
 Seal: FKM (Viton)

Medium:

Water

Max. temperature:

100°C

Max. operating pressure:

10 bar

Subject to errors, omissions, and technical changes!

ELECTRONIC MULTI-CIRCUIT DISTRIBUTION SYSTEM

for flow control and temperature monitoring up to 180°C

Compact design for transparency and quality in manufacturing

General information:

- Multi-circuit distribution system with integrated measurement of the flow and temperature in multiple, separate circuits
- Regulation of the individual circuits for controlled and continuous flow
- Robust and compact design in brass/stainless steel for temperatures up to 180°C
- Monitoring of the flow, temperature, and pressure
- Visualization terminal with touch screen display and graphic visualization
- Collection and evaluation of process data, documentation and storage of the process parameters, as well as parameterization and condition monitoring

The parallel distribution of the functional multi-circuit distribution system for electronic flow measurement and temperature monitoring centrally distributes cooling and heating media between several circuits and is easy to integrate into injection molding machines.

The multi-circuit distribution system is used to measure and monitor the volumetric flow rates of liquid media and is characterized by its variability as well as by its compact and robust design. Our modular system allows us to offer you a solution that meets your specific needs and is easy to install.

In addition to its unique design, the low-maintenance multi-circuit distribution system is characterized by high measurement accuracy, as well as detailed monitoring of process information and parameters, and therefore ensures the highest possible process reliability. A large number of functions are available to the user, for example process documentation, triggering of alarms when limit values are reached, and the ability to save the mold parameters.

The measuring and monitoring function of the multi-circuit distribution system can be designed to meet the requirements of customer-specific applications. Through a controlled and continuous flow of water, the distribution system ensures precise regulation in all types of applications and all temperature ranges. The distribution system is suitable for open and closed circuits and for temperatures up to 180°C.

Measurement principle:

Mechatronic flow measurement with a PT1000 temperature sensor

The mechatronic flow sensor built into the distribution system operates based on the principle of a spring-loaded piston. The piston, which rests in the valve seat of a housing is lifted up against the flow of the medium due to the force of the spring. The position of the piston is determined using a Hall Sensor and is output as an analog signal (4...20 mA). The force of the spring ensures the piston returns to its starting position when the flow slows down. This allows the flow sensor to be installed in any orientation and prevents backflow. By decoupling the temperature of the measuring transducer from the sensor electronics, this sensor can be used for media in the high temperature range up to 180°C. The temperature is measured using a PT1000 resistance thermometer. The sensors used are mounted in the parallel distribution in the return line of each circuit.



Image may differ from the actual product!

Subject to errors, omissions, and technical changes!



Image may differ from the actual product!

Advantages:

Economic Advantages:

- Improves the transfer of heat on the mold because hose bridges are not necessary
- Provides a clear indication of contaminants in the circuit and triggers an alarm before rejects are produced
- Reduces the pressure loss due to its lack of hose bridges
- Increases the flow of water
- Reduces the overall cost of installation and the energy consumption
- Exact localization of the source of the problem since the zones are separated
- Ability to influence specific segments of the mold
- Regulates and monitors each temperature control circuit in the mold
- Increases the stability and traceability of the process
- Shorter setup and cycle times

Technical Advantages:

- Measurement and monitoring of the flow, temperature, and pressure
- High measurement accuracy, high functional reliability
- Water distributed close to the mold as well as short hoses
- The system is easy to integrate into machines and systems
- Insensitive to pressure surges
- Compact and robust design
- High volumetric flow rate
- Suitable for open and closed circuits

Controller:

The control unit enables measurement and monitoring as well as the display of an evaluation of all process parameters. The high resolution touch screen display with a one-of-a-kind visualization concept.

- Choice of a 4.3" or 7" color display with touch screen
- High resolution display with a one-of-a-kind visualization concept
- Status overview with labels for each circuit
- Mold data administration with parameter names
- Visualization and monitoring of the flow, temperature, and pressure
- Visualization and evaluation of all process parameters
- Process data acquisition available for all parameters
- Display of the limit values with detailed text and alarm messages
- Process data logging with a logging interval
- Ability to save the mold parameters and alarm history
- Alarms are reported to the injection molding machine
- USB interface to transfer data
- Interfaces to the IMM: Ethernet, RS-232, RS-485, TTY 20 mA, OPC/UA, Profinet, Modbus



Images may differ from the actual product!

Technical data:

Circuit control: Manual shut-off ball valves
Measurement principle: Mechatronic
Measurement range: 0.3...25 l/min.
Connections: Main distribution flow, 1" inner thread - mold circuit 1/2" inner thread
Modular design: Expansion levels 2, 3, 4, 5, 6, 8, 10, and 12 station manifold distributor, cascadable up to 100 zones.

Materials: Parts in contact with media made of brass and stainless steel, Seal: FKM (Viton)
Medium: Hot water
Max. temperature: 180°C
Max. operating pressure: 15 bar

Subject to errors, omissions, and technical changes!

ELECTRONIC MULTI-CIRCUIT DISTRIBUTION SYSTEM

for flow control and temperature monitoring with thermal oil up to 200°C

For applications with thermal oil up to 200°C, in a compact design for transparency and quality in production

General information:

- Multi-circuit distribution system with integrated measurement of the flow and temperature in multiple, separate circuits
- Regulation of the individual circuits for controlled and continuous flow
- Robust and compact design in stainless steel for temperatures up to 200°C
- Monitoring of the flow, temperature, and pressure
- Visualization terminal with touch screen display and graphic visualization
- Collection and evaluation of process data, documentation and storage of the process parameters, as well as parameterization and condition monitoring

The parallel distribution of the functional multi-circuit distribution system for electronic flow measurement and temperature monitoring centrally distributes cooling and heating media between several circuits and is easy to integrate into injection molding machines.

The multi-circuit distribution system is used to measure and monitor the volumetric flow rates of liquid media and is characterized by its variability as well as by its compact and robust design. Our modular system allows us to offer you a solution that meets your specific needs and is easy to install.

In addition to its unique design, the low-maintenance multi-circuit distribution system is characterized by high measurement accuracy, as well as detailed monitoring of process information and parameters, and therefore ensures the highest possible process reliability. A large number of functions are available to the user, for example process documentation, triggering of alarms when limit values are reached, and the ability to save the mold parameters.

The measuring and monitoring function of the multi-circuit distribution system can be designed to meet the requirements of customer-specific applications. Through a controlled and continuous flow, the distribution system ensures precise regulation in all types of applications and all temperature ranges. The distribution system is suitable for open and closed circuits and for temperatures up to 200°C.

Measurement principle:

Mechatronic flow measurement with a PT1000 temperature sensor

The mechatronic flow sensor built into the distribution system operates based on the principle of a spring-loaded piston. The piston, which rests in the valve seat of a housing is lifted up against the flow of the medium due to the force of the spring. The position of the piston is determined using a Hall Sensor and is output as an analog signal (4...20 mA). The force of the spring ensures the piston returns to its starting position when the flow slows down. This allows the flow sensor to be installed in any orientation and prevents backflow. By decoupling the temperature of the measuring transducer from the sensor electronics, this sensor can be used for media in the high temperature range up to 200°C. The temperature is measured using a PT1000 resistance thermometer. The sensors used are mounted in the parallel distribution in the return line of each circuit.



Image may differ from the actual product!

Subject to errors, omissions, and technical changes!



Image may differ from the actual product!

Advantages:

Economic Advantages:

- Improves the transfer of heat on the mold because hose bridges are not necessary
- Provides a clear indication of contaminants in the circuit and triggers an alarm before rejects are produced
- Reduces the pressure loss due to its lack of hose bridges
- Reduces the overall cost of installation and the energy consumption
- Exact localization of the source of the problem since the zones are separated
- Ability to influence specific segments of the mold
- Regulates and monitors each temperature control circuit in the mold
- Increases the stability and traceability of the process
- Shorter setup and cycle times

Technical Advantages:

- Measurement and monitoring of the flow, temperature, and pressure
- High measurement accuracy, high functional reliability
- Medium distributed close to the mold as well as short hoses
- The system is easy to integrate into machines and systems
- Insensitive to pressure surges
- Compact and robust design, made of stainless steel
- High volumetric flow rate

Controller:

The control unit enables measurement and monitoring as well as the display of an evaluation of all process parameters. The high resolution touch screen display with a one-of-a-kind visualization concept.

- Choice of a 4.3" or 7" color display with touch screen
- High resolution display with a one-of-a-kind visualization concept
- Status overview with labels for each circuit
- Mold data administration with parameter names
- Visualization and monitoring of the flow, temperature, and pressure
- Visualization and evaluation of all process parameters
- Process data acquisition available for all parameters
- Display of the limit values with detailed text and alarm messages
- Process data logging with a logging interval
- Ability to save the mold parameters and alarm history
- Alarms are reported to the injection molding machine
- USB interface to transfer data
- Interfaces to the IMM: Ethernet, RS-232, RS-485, TTY 20 mA, OPC/UA, Profinet, Modbus



Images may differ from the actual product!

Technical data:

Circuit control:	Manual shut-off ball valves
Measurement principle:	Mechatronic
Measurement range:	0.3...25 l/min.
Connections:	Main distribution flow, 1" inner thread - mold circuit 1/2" inner thread
Modular design:	Expansion levels 2, 3, 4, 5, 6, 8, 10, and 12 station manifold distributor, cascable up to 100 zones.

Materials:	Parts in contact with media made of brass and stainless steel, Seal: FKM (Viton)
Medium:	Heat transfer fluids
Max. temperature:	200°C
Max. operating pressure:	15 bar

Subject to errors, omissions, and technical changes!

CONTROL UNIT AND OPERATOR PANEL

Visualization and monitoring. All circuits under control

We offer custom designed, application-specific control and display solutions designed for use with our multi-circuit distribution systems. This means the operational functionality, interfaces, and functions are tailored to your needs.

Features:

- Innovative control and regulation unit that is optimally tailored to the range of functions of the multi-circuit distribution systems. Control and I/O systems in the S-DIAS format for every application.
- Various operator panels available for selection. The panels range from the 4.3" capacitive touch screen to the 10.1" capacitive multi-touch screen.
- From simple operating concepts to mature Industry 4.0 control systems.
- Simple and trouble-free management of multi-circuit distribution systems, analysis and control on a single platform. With the Remote Access Platform (RAP) you have an advanced, web-based cloud platform available for secure remote access.

Standard equipment:

- Display with a one-of-a-kind visualization concept
- Easy to set the parameters using the display
- Visualization, control, monitoring, and evaluation of all process sensors and process data
- Visualization and evaluation of all process parameters
- Process data acquisition available for all parameters
- Display of the limit values with detailed text and alarm messages as well as an alarm history
- Process data logging with a logging interval
- Ability to save the mold parameters including administration of the mold data
- USB interface to transfer data
- Cascadable up to 160 zones

Interfaces:

- TTY 20 mA / RS 485 / RS 232
- Modbus
- OPC UA
- Ethernet
- Profinet (S-DIAS CP102/IPN021)
- IO-Link

INNOVATION BY RUMMEL

- Custom solutions
- Optimized for Industry 4.0
- Cloud solutions
- Displayable in a browser
- Remote maintenance
- VPN platform



Image may differ from the actual product

Special applications:

CLOUD PLATFORM WITH VPN CONNECTION

- Remote access - remote maintenance of the control unit
- Cloud logging - data is stored in the cloud



Subject to errors, omissions, and technical changes!

MOUNTABLE DISTRIBUTION SYSTEMS FOR FLOW-TEMP TEMPERATURE CONTROL UNITS

Multi-circuit distribution system for attachment to temperature control units for the individual measurement and monitoring of the flow rate and the process return temperature. Visualization, operation, and communication are performed via the 7" touch screen of the temperature control unit.

Maximum process control of the temperature control circuits

General information:

- Simple integration and installation on the temperature control unit
- Visualization, operation, and communication via the 7" touch screen of the temperature control unit.
- Display and monitoring of the flow rate and temperature for each distribution circuit
- Ability to set limits for the flow rate and temperature of each distribution circuit
- Parts in contact with media made of brass and stainless steel
- Robust power-coated steel housing
- Easy access to all components

Advantages:

- Improves the transfer of heat on the mold because hose bridges are not necessary
- Provides a clear indication of contaminants in the circuit and triggers an alarm before rejects are produced
- Reduces the pressure loss and increases the water flow rate due to its lack of hose bridges
- Exact localization of the source of the problem since the zones are separated
- Ability to influence specific segments of the mold
- Regulates and monitors each temperature control circuit in the mold
- Increases the stability and traceability of the process
- Can be retrofitted

Technical data:

- Circuit control: Manual shut-off ball valve or electric proportional valves with control electronics for automatic flow and temperature control
- Connections: Main distribution flow, 1" inner thread - mold circuit 1/2" inner thread
- Medium: Water / hot water / heat transfer fluid
- Max. temperature: 120°C / 160°C
- Max. operating pressure: 10 bar / 15 bar
- Expansion levels: 2, 4, 6, 8, 10, 12 stations

You can choose one of two mounting methods:

- Variant 1: Simple installation directly on the temperature control unit
- Variant 2: Integration or installation directly on the clamping plates or in the machine. Communication between the distribution system and temperature control unit using data cables with Harting connectors, visualization and operation via the 7" touch screen of the temperature control unit.

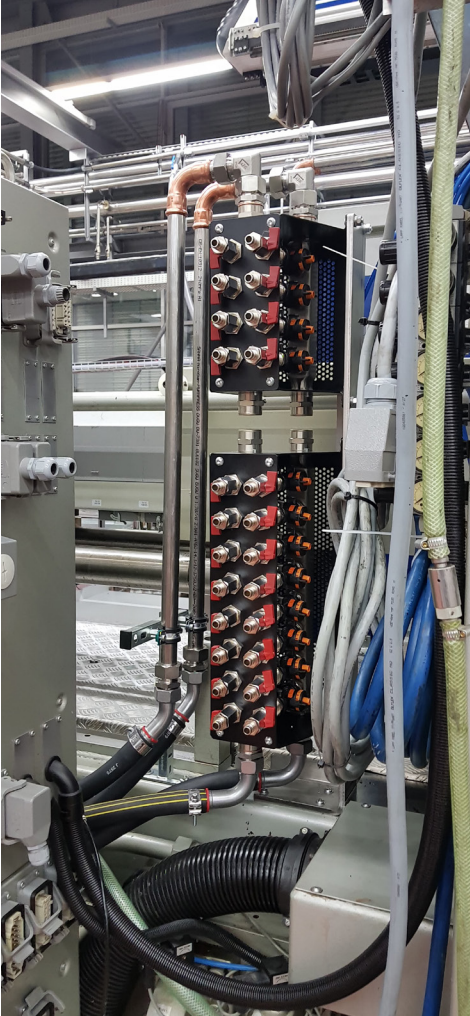
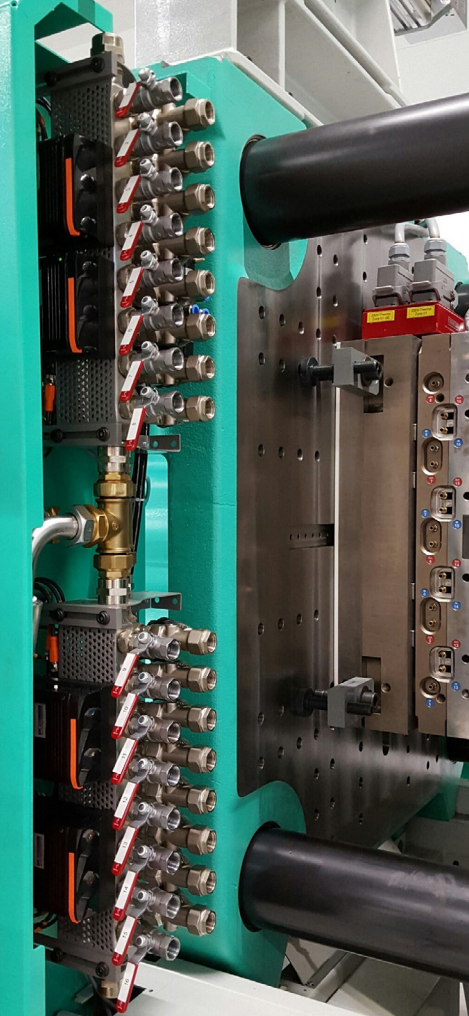
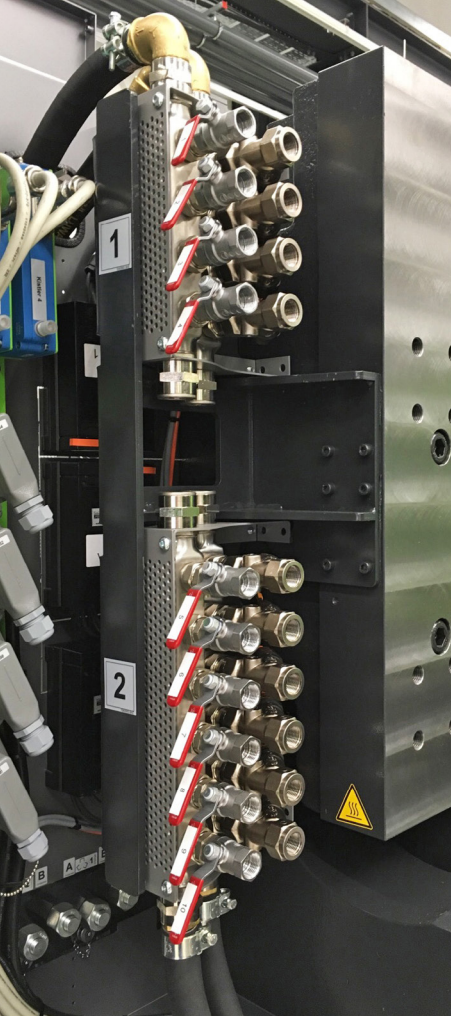
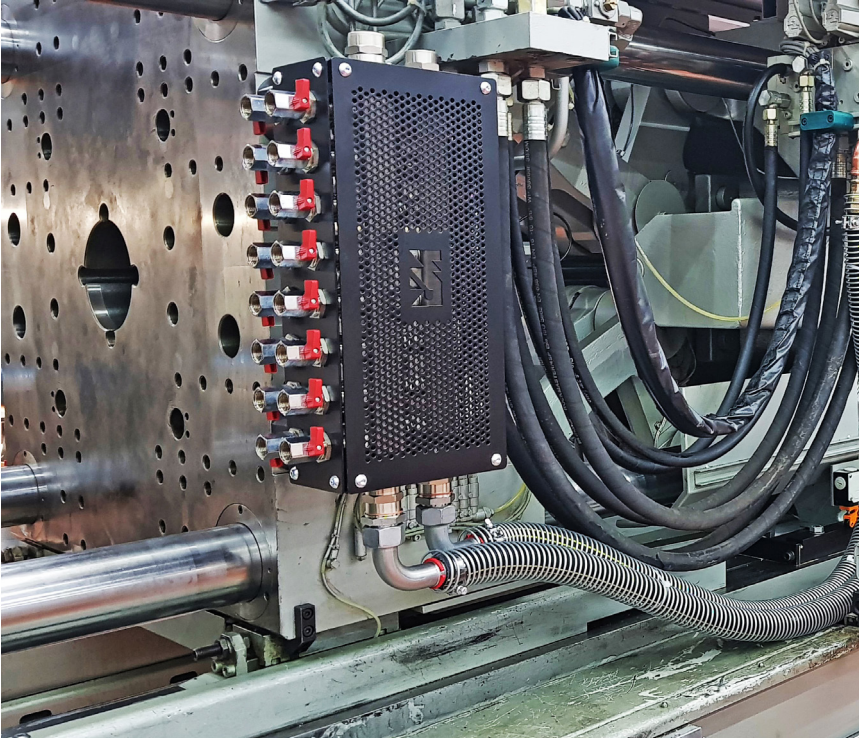
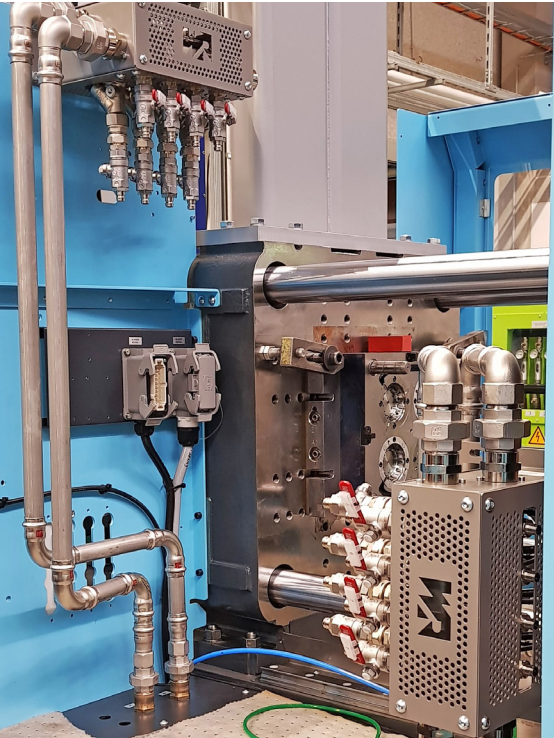


Image may differ from the actual product!

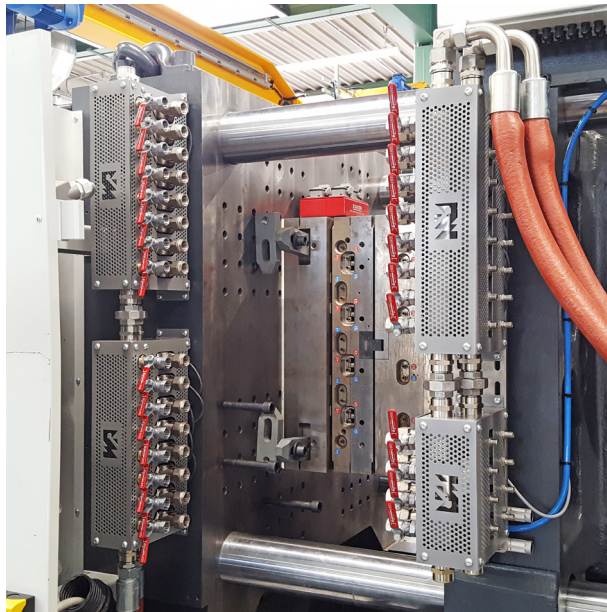
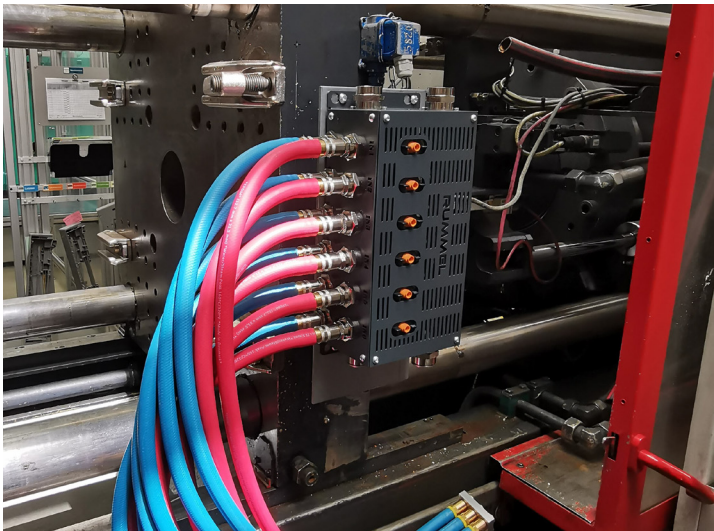
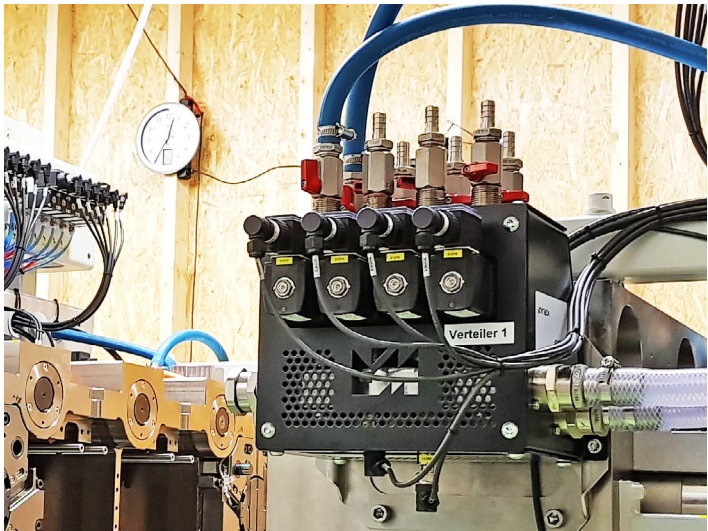


Subject to errors, omissions, and technical changes!

PHOTOS OF UNITS IN USE



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