ISOHEAT®

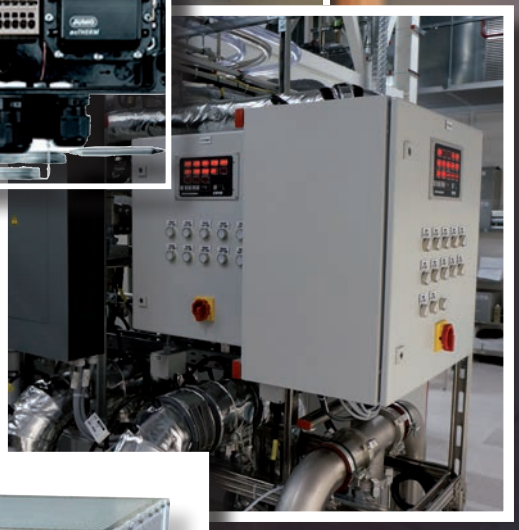
Qualität
Made in Germany

High Tech Engineering

Measurement and control technology

Electrical heating technology for industry and research









ISOHEAT®

www.isoheat.de

The brand name for individual heating technology

MIL-RD1000 electronic single-channel temperature controller







- Stable table and wall housing with see-through cover
- Easy to use
- Two displays to show the target and actual values
- Operated via membrane keyboard
- Settings via the parameter level
- Sensor input: Pt100 or thermocouples
- Freely adjustable temperature range of 0 – 1200 °C
- Protection class IP65
- Rated voltage 230V
- For contact ratings, see device type
- For the consumer/sensor connection, see device type
- Control precision 0.5%
- Control characteristics: PID with self-optimisation
- 1.5m mains connection line with Schuko plug

Device type/order numbers				
Type	Consumer and sensor connection	Power rating	Order no.	Dimensions (WxHxD)
MIL-RD1011	Screw terminals	3650 W	61001011	165 x 160 x 135mm
MIL-RD1002	Multi-pin plug	2300 W	61001002	165 x 160 x 135mm
MIL-RD1012	Multi-pin plug	3650 W	61001012	165 x 160 x 135mm

MIL-RD2000 electronic double temperature controller



- Stable table and wall housing with see-through cover
- Easy to use
- Two displays each to show the target and actual values
- Operated via softkey keyboard
- Settings via the parameter level
- Sensor input: Pt100 or thermocouples



- Freely adjustable temperature range of 0 – 1200 °C
- Protection class IP65
- Rated voltage 230V
- Control precision 0.5%
- Control characteristics: PID with self-optimisation

Device type/order numbers				
Type	Consumer and sensor connection	Power rating	Order no.	Dimensions (WxHxD)
MIL-RD2011	Screw terminals	3650 W	61002011	198 x 212 x162mm
MIL-RD2012	Multi-pin plug	3650 W	61002012	165 x 160 x135mm

MIL-RD3000 electronic controller limiter





- Stable table and wall housing with see-through cover
- Easy to use
- Two displays each to show the target and actual values
- Operated via membrane keyboard
- Settings via the parameter level
- Sensor input: Pt100 or thermocouples
- Freely adjustable temperature range of 0 – 1200 °C
- Protection class IP65
- Rated voltage 230V
- Control precision 0.5%
- Control characteristics: PID with self-optimisation
- Consistent switch-off at overtemperature

Device type/order numbers				
Type	Consumer and sensor connection	Power rating	Order no.	Dimensions (WxHxD)
MIL-RD3011	Screw terminals	3650 W	61003011	198 x 212 x162mm
MIL-RD3012	Multi-pin plug	3650 W	61003012	165 x 160 x135mm

MiL-EC200 single-channel controller for simple applications





- Stable, compact wall housing with see-through cover
- LEDs for mains, operation and fault (probe break)
- Simple temperature adjustment via rotary knob
- Sensor input: Pt100
- Freely adjustable temperature range of 0 – 200 °C
- Rated voltage 230V
- Protection class IP54
- Control characteristics: 2 point or PID
- Operating temperature 0 – 50°C
- Dimensions: 130 x 130 x 55mm (WxHxD)

Device type/order numbers			
Type	Consumer and sensor connection	Power rating	Order no.
MIL-EC200	Screw terminals	2300 W	61100200
MIL-EC210	Screw terminals + Connection line	2300 W	61100210

MiL-CST / MiL-CSTL capillary tube surface thermostat





- MiL-CST capillary tube thermostat
- Indicator lamps for mains and operation
- Temperature can be adjusted via rotary knob
- Can be used either as an air or a contact thermostat
- Rated voltage 230V
- Dimensions 170 x 140 x 70mm (WXHXD)

Device type/order numbers			
Type	Temperature	Power rating	Order no.
MIL-CST	-20 - +40°C	3650 W	60000040
MIL-CST	0 - 200°C	3650 W	60000200
MIL-CST	50 – 300°C	3650 W	60000300

Electronic temperature controller MIL-EC 500 series



- sturdy, compact wall-mounted housing with transparent lid
- easy to use
- operation via keypad with menu control of the IR interface
- display: LCD graphic display (setpoint/actual value display)
- status display 3-color LED to display the operating statuses
- freely adjustable temperature range 0°C...999°C
- controller type: FAT (Fast-Adaptive-Tuning)
- normal voltage 230V
- dimensions:
  510; 530 -> 151 x 125 x 60 mm
  550 -> 151 x 125 x 90 mm
- sensors:
  Pt100, PT1000, Nickel 120 (each 2,3 or 4-wire connection), NTC 10K, NTC 100K (each 2,3 or 4-wire connection), thermocouples type K,J,E or N all inputs potential-free with sensor break protection

Device type / Order number				
Type	Consumer and sensor connection	Sensor	Switchhing capacity	Order no.
MIL-EC510	Screw terminals	all types	16A	61000510
MIL-EC530-PT	7-Pol (Binder 693)	Pt 100	10A	61000530
MIL-EC530-TC	7-Pol (Binder 693)	thermocouple	10A	61000531
MIL-EC550-PT	7-Pol (Binder 694)	Pt100	16A	61000550
MIL-EC550-TC	7-Pol (Binder 694)	thermocouple	16A	61000551

Electronic temperature controller & limiter combination MIL-EC 710

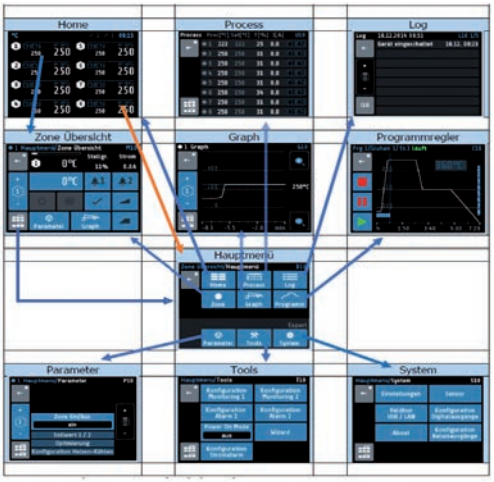


- sturdy, compact wall-mounted housing with transparent lid
- easy to use
- operation via keypad with menu control of the IR interface
- display: LCD graphic display (setpoint/actual value display)
- status display 3-color LED to display the operating statuses
- sensor inputs: 2x or 1x as desired
- freely adjustable temperature range 0°C...999°C
- permanent switch-off in case of overtemperature
- nominal voltage 230V
- controller type: FAT (Fast-Adaptive-Tuning)
- dimensions: 151 x 125 x 90 mm
- sensors:
  Pt100, PT1000, Nickel 120 (each 2,3 or 4-wire connection), NTC 10K, NTC 100K (each 2,3 or 4-wire connection), thermocouples type K,J,E or N all inputs potential-free with sensor break protection

Device type / Order number			
Type	Consumer and sensor connection	Switching Captacity	Order No.
MIL-EC 710	screw terminals	16A	61000710

MiL-MKR 1908 multi-channel program controller





- 3.5 inch touchscreen
- 8 control circuits
- 19” rack
- Ramp function
- Program function
- Recording function on USB stick
- Very easy to use
- Ethernet interface
- Optional field bus interfaces
- Graphical representation of the actual temperature value
- Input: RTD , linear and thermocouples
- Freely adjustable temperature range of 0 – 1200 °C
- Front locks
- High switching cycles thanks to maintenance-free solid state relay Outputs via multi-pole sockets

Device type/order numbers		
Type	Power rating	Order no
MIL-MKR 1908	2300 W/Channel	70001908

MiL-MKR 1916 multi-channel program controller





- 3.5 inch touchscreen
- 16 control circuits
- 19” rack
- Ramp function
- Program function
- Recording function on USB stick
- Very easy to use
- Ethernet interface
- Optional field bus interfaces
- Graphical representation of the actual temperature value
- Input: RTD , linear and thermocouples
- Freely adjustable temperature range of 0 – 1200 °C
- Front locks
- High switching cycles thanks to maintenance-free solid state relay
- Outputs via multi-pole sockets

Device type/order numbers		
Type	Power rating	Order no
MIL-MKR 1916	2300 W/Channel	70001916

MiL-RB200EX EX capillary controller / limiter thermostat





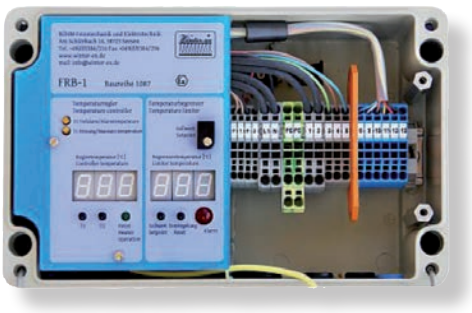
Features

- **Application area**
  II 2G Ex d e IIC T4 Gb
  II 2D Ex tb IIIC T130° Db
- **Temperature controller** Adjustment range 0 - 200°C
- **Temperature limiter** Adjustment range 70 - 200°C
- **Limiter unlocking** manual unlocking in the housing
- **Power section**
  16A /230V AC
- **External fault notification**
  Potential-free changeover contact 6.3A, 230V AC,
  or 2.5A 24V DC

Device type/order numbers		
Type	PDimensions (WxHxD)	Order no
MIL-RB200EX	260 x 160 x 135mm	890158

MiL-RD200EX electronic controller / limiter unit





Features

- **Application area**
  II 2 G Ex e ib [ibGb]mb IIC T4 Gb
  I D Ex tb III C IP 6x T90°C Db
- **Temperature controller** Adjustment range 0 - 450°C
- **Temperature limiter** Adjustment range 0 - 450°C
- **Limiter unlocking** via button
- **Power section** Contactor 25A /230V AC
- **Settings in areas at risk of gas explosions**
  The temperature values may be set while operating in Ex zone 1.
- **Temperature sensor** Pt100 for controller
  and limiter via an inherently safe measuring circuit
  (no Ex temperature probe required)
- **External fault notification**
  Potential-free changeover contact 5A, 250V AC, 100VA or 5A,
  24V DC, 100W
- **Protection class** IP64 EN60529

Device type/order numbers		
Type	Dimensions (WxHxD)	Order no
MIL-RD200EX	260 x 160 x 135mm	61004911

ISOHEAT®

High Tech Engineering



ISOHEAT®

Your partner for electrical heating systems for many years

We develop and produce customer-specific electrical heating systems for industry and research.

The name **ISOHEAT®** stands for quality and competence.

Thanks to our decades of technical knowledge in electrical heating technology and more than 60 employees who specialise in solutions for industrial heating technology, we are convinced that we're the right partner for you.

Our customers' satisfaction and trust is based on the fact that we provide our services on time and to the agreed quality.

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