



## Instructions for Installation and Operation



ATEX digital controller combination

# WEXRBL25-230ZESBH







## WEXRBL25-230ZESBH



To ensure correct functioning, please read these Instructions for Installation and Operation carefully <u>prior to</u> <u>installation</u> and putting the device into operation! Observe the data on the type label and any possible warnings. Before putting the device into operation check that all cable entries are closed and sealed. **WEXRBL25-230ZESBH** is suitable for use in areas with potentially explosive gas or dust atmospheres of groups IIC / IIIC according to zones 1/21 and 2/22.

## The WEXRBL25-230ZESBH unit is not suitable for use in zone 0/20!

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## 1. General safety information

The device may only be put into operation by qualified personnel in accordance with the valid safety regulations and these Instructions for Installation and Operation. The DIN VDE 0100 regulations are to be complied with. It must be ensured that personnel or third parties are not exposed to any danger.

For proper and intended use it must further be ensured that the device is only employed where the technical operating parameters (e.g. nominal operating voltage, load current, ambient temperature) cannot be exceeded.

The manufacturer is not responsible for damage caused by external forces or other external impacts! Only use equipment that is in its original packaging and in a faultless condition.

Manipulations on the device are not permissible, otherwise the manufacturer's warranty becomes invalid.



Repairs on the WEXRBL25-230ZESBH unit may only be carried out at the manufacturer's facility.

## 2. General characteristics / installation notes

The ATEX digital controller combination **WEXRBL25-230ZESBH**, which includes resistance thermometers (Pt100), enables temperature control and limitation for heating equipment used in areas with potentially explosive atmospheres. The device also has an energy controller (power selector) in the form of a full-wave control.

The device is explosion-protected (Ex) in accordance with Directive 2014/34/EU – Equipment and protective systems intended for use in potentially explosive atmospheres – and DIN EN 60079-0 Explosive atmospheres, Part 0: Equipment – General requirements (see also Sect. 5 Tests / standards). The device corresponds to EMC test NAMUR NE21.

Special characteristics and features:

- Approved for application in areas with potentially explosive gas (G) or dust (D) atmospheres
- Ex marking Gas II 2G Ex e ib [ib Gb] mb IIC T4 Gb / Dust II 2D Ex tb IIIC IP6X T90°C Db
- Measuring range of controller and limiter 0...450 °C
- Intrinsically safe connection of the Pt100 DIN resistance thermometer in <u>3- or 2-wire</u> circuit
- Setting of the switching point by means of a screwdriver
- Indication of main contactor position by green LED
- Measured value display via 7-segment LED display for controller and limiter
- Signalling of sensor break and sensor short-circuit signal





- Reset of the limiter at the device
- After power failure no reset required
- Power supply 230V~ 50/60 Hz
- No interference with the power supply because of full-wave control with SSR (solid-state-relay)
- Solid aluminium standard enclosure IP64 for mounting on base plate
- Device fuse for the control circuit is accessible internally via terminal block



WEXRBL25-230ZESBH with open lid



The device is equipped with a reversible temperature switch that is actuated at approx. 90°C internal temperature.

## 3. Function

The WEXRBL25-230ZESBH unit is a major element of an electric heating control which can be installed in areas with potentially explosive atmospheres and possesses intrinsically safe circuits for temperature sensors (Pt100). Measured-value processing takes place by means of a built-in microcontroller.







## 3.1 Temperature limiter

The indicated limit value is set via the "**Setpoint**" potentiometer. As soon as the sensor temperature exceeds the set limit value, the load circuit is opened and interlocked (red LED on). The interlock state can only be cancelled by pressing the internal reset button of the limiter next to the limiter's red LED alarm indication. In the event of a sensor break or sensor short-circuit, the load circuit is opened and interlocked. In the event of a supply voltage failure, the power supply to the limiting electric circuit is also interrupted. When the supply voltage is restored, the device will switch back to the same mode that it had before the supply voltage failure occurred.



## 3.2 Temperature controller

Pressing button **"T1"or"T2"** will display the corresponding setpoint value. The potentiometers **"Maintain temperature T1"** and **"Alarm temperature T2"** allow the separate setting of the switching points.

Controller switching point: setpoint value Maintain temperature T1 Low-temperature alarm: setpoint value Alarm temperature T2 Terminals 3, 4, 5 (changeover contact)

In the event of a wire break or short-circuit of the resistance thermometer, the main circuit is opened and the fault is signalled.



## 3.3 Energy controller (power selector)

The energy controller consists of a main contactor and a non-wearing fullwave control which switches at the phase zero point. Using the energy controller's 10-step switch, the operator can set the desired power in 10% steps from 10% to 100%. This enables easy adaptation to low-resistance heating lines.



## Warning:

On the power supply side, the heating circuit is externally fuse-protected by means of a 25 A automatic circuit breaker. The cable connection must be routed permanently. Without a correctly dimensioned back-up fuse, the load output of the device will not be short-circuit proof!



## Note:

For safety reasons, the power selector is set to 10% power when it is delivered. Please set to the desired power (normally 100%) before putting the device into operation.





#### Measuring circuit monitoring 4.

With the WEXRBL25-230ZESBH unit, the temperature sensor system of the controller and the limiter are both monitored in the same way:

Short-circuit of the sensor lead or T < -100 °C	Internal signal External signal	<ul> <li>LED display flashes slowly with ," value</li> <li>opens the load circuit and interlocks limiter</li> </ul>
Wire break of the sensor lead or T > 532 °C	Internal signal External signal	<ul> <li>LED display flashes slowly with value "UUU"</li> <li>opens the load circuit and interlocks limiter</li> </ul>
Wire break of the sensor lead in the case of 3-wire connection	Internal signal External signal	<ul> <li>LED display flashes slowly with value "UU"</li> <li>opens the load circuit and interlocks limiter</li> </ul>
Sensor lead > 22 Ohm	Internal signal External signal	<ul> <li>LED display flashes slowly with measured value</li> <li>opens the load circuit without interlocking of limiter</li> </ul>

#### 5. Tests / standards

<ul> <li>Explosion protection</li> </ul>	EC type examination certificate TÜV 10 ATEX 556065 notified body 0123 Ex-protected according to DIN EN 60079-0 – General requirements
	Protection standard for areas with explosive gas or dust atmospheres:
	DIN EN 60079-7protection standard - e - increased safetyDIN EN 60079-11protection standard - i - intrinsic safetyDIN EN 60079-18protection standard - m - encapsulationDIN EN 60079-31protection standard - t - protection by enclosures
<ul> <li>Electromagnetic compatibility</li> </ul>	- EMC-tested - Namur NE 21 test criterion A
<ul> <li>Additional test</li> </ul>	- Routine test after thermal ageing

Additional test

#### 6. **Technical data**

<ul> <li>Supply voltage</li> <li>External protection</li> <li>Load output</li> <li>Power consumption</li> </ul>	230 VAC (-15% to +10%); 50-60 Hz 25 A circuit-breaker type A, B, C (Siemens), or Z, B, C (ABB) Electronic solid-state relay with 25 A nominal current ≤ 11 VA (without load)
<ul> <li>Mounting position</li> <li>Intrincically cofe measuring</li> </ul>	Wail-mounting
circuit explosion-protection	[1,5] max. external inductance <b>10 mH</b>
type -e-	[Ex ib] IIB Uo = 6,3 V, Io = 22 mA, max. external capacity 8,2 μF max. external inductance 10 mH
<ul> <li>Temperature sensor</li> </ul>	Pt100 DIN Resistance thermometer, customary industrial version; See copy of the EC Type Examination Certificate in the Annex
<ul> <li>Common fault output</li> </ul>	1 CO contact 5 A, 250 V AC,100 VA or 5 A, 24 V DC, 100 W (see chapter 15 Overview of switching conditions of the fault indicator relay)
<ul> <li>Limitation switching point:</li> </ul>	threshold value 2 °C (displacement) below the set target value
<ul> <li>Switching point accuracy</li> </ul>	<1K
<ul> <li>Controller hysteresis</li> </ul>	2 K
Ambient temperature	-20+40 °C
• Overtemperature protection	Device-integrated temperature switch (switch-off temperature approx. 90 °C)
	Aluminium, mounting on base plate
Protection standard	enclosures (IP code)
<ul> <li>Terminals</li> </ul>	Wire cross-section: infeed 0,56 mm <sup>2</sup> (up to 4 mm <sup>2</sup> with ferrule) Load output 0,56 mm <sup>2</sup> (to 4 mm <sup>2</sup> with ferrule) Reset/Rel. output 0,24 mm <sup>2</sup> (up to 2,5 mm <sup>2</sup> with ferrule) Sensors 0,24 mm <sup>2</sup> (up to 2,5 mm <sup>2</sup> with ferrule)
<ul> <li>Dimensions</li> </ul>	260 x 160 x 135 mm
● Weight	Approx. 6,0 kg





## 7. Electrical connection / device connections

Terminals F1, F2	For back-up device fuses GS5, F1=100 mA; F2= 50 mA
Terminals L1, N, PE	Power supply 230VAC, 50-60 Hz
Terminals 1, 2	Load output
Terminals 3, 4, 5:	Relay output group fault (summary alarm)
Terminals (blue) 8, 9, 10:	Resistance thermometer Pt100 controller, 3-wire connection, intrinsically safe
Terminals (blue) 11, 12, 13:	Resistance thermometer Pt100 limiter, 3-wire connection, intrinsically safe

Wiring diagram and block diagram for WEXRBL25-230ZESBH:

Anschlussplan und Blockschaltbild





Connection terminals



Abdeckung nicht öffnen solange nichteigensichere Stromkreise unter Spannung stehen! Bedienungsanleitung beachten! Do not open the terminal cover of the unit while device is energised

Please observe operating instructions!

## 8. General installation instructions

- The device corresponds to DIN IEC 100 safety class I (protective earthing).
- Connect the PE terminal to the enclosure cover.
- The general installation standard DIN EN 60079-14:2009 "Explosive atmospheres Electrical installations design, selection and erection" must be observed.
- Adhere to DIN VDE 0100, mount the device at all 4 fixing points to the supporting frame.
- Device manipulation of whatever kind is not permissible.
- The terminal cover is also a protection against contact and must in place during operation.
- The cable gland connections must match the cable/lines and guarantee sufficient strain relief.
- Cables and lines must be routed permanently.



Using Pt100 temperature sensors with a two-wire system requires line compensation and additional links. For further information see chapter 14.





#### 9. First time start-up

- 1. Connect the two resistance thermometers (Pt100) to terminals 8 to 13 (see picture).
- 2. Connect the power supply and the heating lead.
- 3. Temperature limiter:
  - Use a screwdriver to set the limiter temperature (limit value) at the "Setpoint" potentiometer.
  - Press the reset button, the large red LED goes out, the limiter is now ready for operation.
- 4. Temperature controller:
- Set switching point "Maintain temperature T1": Press button "T1" on the device and simultaneously use a screwdriver to set the switching point at the "Maintain temperature T1" potentiometer.
- Set switching point "Alarm temperature T2": Press button "T2" on the device and simultaneously use a screwdriver to set the switching point at the "Alarm temperature T2" potentiometer.
- 5. Energy controller

  - The energy controller (power selector) should be adjusted as described in chapter 11. <u>Note</u>: When delivered, the power controller is set to a power of 10% (for safety reasons)!

#### 10. Front panel







## 11. Start-up of the energy controller (power selector) of the WEXRBL25-230ZESBH

## **11.1 General Information**

Full wave control has the advantage that low-resistance loads can easily be used with a 230V

alternating voltage supply. Since switching takes place at the phase zero point with the aid of an SSR (solid-state relay), the supply network is not exposed to disturbance. The full-wave control operates with a fixed cycle of 200 ms. The ratio of the switch-on time to switch-off time can be set in steps from 10% to 100%. Thus, a 10% setting results in a switch-on duration of 20 ms (one full wave) and an off period of 180 ms (9 full waves).

## 11.2. Setting instructions

Always observe the maximum value of the nominal current  $l_{eff}$ =25A for the digital controller combination WEXRBL25-230ZWSBH. To avoid overloading the device, the energy controller must not be set across the full setting range in the case of heating circuits with heating circuit resistances below 9,2 ohms (see Table, part A + B). The appropriate setting of the energy controller for this type of heating circuit is shown in Table 1 or can be calculated according to section 11.3 to ensure that the max. effective current of 25 A is not exceeded. With a 10% setting, the max. effective current (leff) amounts to maximum 21 A which corresponds to a heating circuit resistance of approx. 3,5 ohms. This maximum current load at the 10% setting is due to the max. surge current load of the SSR.

### Example for setting the energy controller:

Here, the largest possible setting is to be determined for a heating circuit with a resistance of 6,0 ohms. Procedure:

A) Find the heating circuit resistance in the Table heating circuit resist / current leff [A] at energy controller setting

Heizk	kreiswiderst.	Strom leff [A]	bei Leistungsst	eller Einstellu	ing	_					
	R H [Ω]	10%	20%	30%	( 40% )	<b>C</b> 50%	60%	70%	80%	90%	100%
<b>A</b>	3,0	24,24	34,29	41,99	48 49	54,21	59,39	64,14	68,57	72,73	76,67
	35	20,78	29,39	35,99	41,56	46,47	50,90	54,98	58,78	62,34	65,71
	40	18,18	25,71	31,49	36,37	40,66	44,54	48,11	51,43	54,55	57,50
	4,5	16,16	22,86	27,99	32,33	36,14	39,59	42,76	45,72	48,49	51,11
	5,0	14,55	20,57	25,20	29,09	32,53	35,63	38,49	41,14	43,64	46,00
	5.5	13,22	18,70	22,90	26,45	29,57	32,3	\$4,99	37,40	39,67	41,82
$\boldsymbol{\zeta}$	6,0	12,12	17,14	21,00	( 24,24 )	₽7,11	29,6	\$2,07	34,29	36,37	38,33
	-6,5	11,19	15,82	19,38	22,38	25,02	27,41	29,60	31,65	33,57	35,38
	7,0	10,39	14,69	18,00	20,78	23,23	25,45	27,49	29,39	31,17	32,86
	7,5	9,70	13,71	16,80	19,40	21,68	23,75	25,66	27,43	29,09	30,67
	8,0	9,09	12,86	15,75	18,18		22,27	24,05	25,71	27,27	28,75
	8,5	8,56	12,10	14,82	17,11		20,96	22,64	24,20	25,67	27,06
	9,0	8,08	11,43	14,00	16,16		19,80	21,38	22,86	24,24	25,56
	9,5	7,66	10,83	13,26	15,31	17,12	18,75	20,26	21,65	22,97	24,21
	10,0	7,27	10,29	12,60	14,55	16,26	17,82	19,24	20,57	21,82	23,00
	10,5	6,93	9,80	12,00	13,85	15,49	16,97	18,33	19,59	20,78	21,90
	11,0	6,61	9,35	11,45	13,22	14,78	16,20	17,49	18,70	19,84	20,91
	11,5	6,32	8,94	10,95	12,65	14,14	15,49	16,73	17,89	18,97	20,00
	12,0	6,06	8,57	10,5	)12,12	13,55	14,85	16,04	17,14	18,18	19,17
	12,5	5,82	8,23	10,0	/11,64	13,01	14,25	15,39	16,46	17,46	18,40
	13,0	5,59	7,91	9,69 🔶	11,19	12,51	13,70	14,80	15,82	16,78	17,69
	13,5	5,39	7,62	9,33	10,78	12,05	13,20	14,25	15,24	16,16	17,04
	14,0	5,20	7,35	9,00	10,39	11,62	12,73	13,75	14,69	15,59	16,43
	14,5	5,02	7,09	8,69	10,03	11,22	12,29	13,27	14,19	15,05	15,86
	15,0	4,85	6,86	8,40	9,70	10,84	11,88	12,83	13,71	14,55	15,33
	15,5	4,69	6,64	8,13	9,38	10,49	11,49	12,41	13,27	14,08	14,84
	16,0	4,55	6,43	7,87	9,09	10,16	11,13	12,03	12,86	13,64	14,38
	16,5	4,41	6,23	7,63	8,82	9,86	10,80	11,66	12,47	13,22	13,94
	17,0	4,28	6,05	7,41	8,56	9,57	10,48	11,32	12,10	12,84	13,53
	17,5	4,16	5,88	7,20	8,31	9,29	10,18	11,00	11,76	12,47	13,14
	18,0	4,04	5,71	7,00	8,08	9,04	9,90	10,69	11,43	12,12	12,78
	18,5	3,93	5,56	6,81	7,86	8,79	9,63	10,40	11,12	11,79	12,43
	19,0	3,83	5,41	6,63	7,66	8,56	9,38	10,13	10,83	11,48	12,11
	19,5	3,73	5,27	6,46	7,46	8,34	9,14	9,87	10,55	11,19	11,79
	20,0	3,64	5,14	6,30	7,27	8,13	8,91	9,62	10,29	10,91	11,50





B) Determine the maximum possible current in field I or II (< 24,24 A)</li>
C) Determine the maximum setting (< 40% = In this case, a setting between 10 and 40 % may be</li> selected).

**Field I (green)** > unrestricted power setting possible (10 ... 100%) Field II (yellow) > restricted power setting possible within the indicated setting range Field III (red) > Prohibited field, device would be overloaded!

Table 1 – Energy controller setting for heating circuit resistances below < 9,2 ohms

heating circuit resist / current leff [A] at energy controller setting

Heizkreiswiderst.	Strom leff [A]	bei Leistungss	teller Einstellu	ng						
R Η [Ω]	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
3,0	24,24	34,29	41,99	48,49	54,21	59,39	64,14	68,57	72,73	76,67
3,5	20,78	29,39	35,99	41,56	46,47	50,90	54,98	58,78	62,34	65,71
4,0	18,18	25,71	31,49	36,37	40,66	44,54	48,11	51,43	54,55	57,50
4,5	16,16	22,86	27,99	32,33	36,14	39,59	42,76	45,72	48,49	51,11
5,0	14,55	20,57	25,20	29,09	32,53	35,63	38,49	41,14	43,64	46,00
5,5	13,22	18,70	22,90	26,45	29,57	32,39	34,99	37,40	39,67	41,82
6,0	12,12	17,14	21,00	24,24	27,11	29,69	32,07	34,29	36,37	38,33
6,5	11,19	15,82	19,38	22,38	25,02	27,41	29,60	31,65	33,57	35,38
7,0	10,39	14,69	18,00	20,78	23,23	25,45	27,49	29,39	31,17	32,86
7,5	9,70	13,71	16,80	19,40	21,68	23,75	25,66	27,43	29,09	30,67
8,0	9,09	12,86	15,75	18,18	20,33	22,27	24,05	25,71	27,27	28,75
8,5	8,56	12,10	14,82	17,11	19,13	20,96	22,64	24,20	25,67	27,06
9,0	8,08	11,43	14,00	16,16	18,07	19,80	21,38	22,86	24,24	25,56
9,5	7,66	10,83	13,26	15,31	17,12	18,75	20,26	21,65	22,97	24,21
10,0	7,27	10,29	12,60	14,55	16,26	17,82	19,24	20,57	21,82	23,00
10,5	6,93	9,80	12,00	13,85	15,49	16,97	18,33	19,59	20,78	21,90
11,0	6,61	9,35	11,45	13,22	14,78	16,20	17,49	18,70	19,84	20,91
11,5	6,32	8,94	10,95	12,65	14,14	15,49	16,73	17,89	18,97	20,00
12,0	6,06	8,57	10,50	12,12	13,55	14,85	16,04	17,14	18,18	19,17
12,5	5,82	8,23	10,08	11,64	13,01	14,25	15,39	16,46	17,46	18,40
13,0	5,59	7,91	9,69	11,19	12,51	13,70	14,80	15,82	16,78	17,69
13,5	5,39	7,62	9,33	10,78	12,05	13,20	14,25	15,24	16,16	17,04
14,0	5,20	7,35	9,00	10,39	11,62	12,73	13,75	14,69	15,59	16,43
14,5	5,02	7,09	8,69	10,03	11,22	12,29	13,27	14,19	15,05	15,86
15,0	4,85	6,86	8,40	9,70	10,84	11,88	12,83	13,71	14,55	15,33
15,5	4,69	6,64	8,13	9,38	10,49	11,49	12,41	13,27	14,08	14,84
16,0	4,55	6,43	7,87	9,09	10,16	11,13	12,03	12,86	13,64	14,38
16,5	4,41	6,23	7,63	8,82	9,86	10,80	11,66	12,47	13,22	13,94
17,0	4,28	6,05	7,41	8,56	9,57	10,48	11,32	12,10	12,84	13,53
17,5	4,16	5,88	7,20	8,31	9,29	10,18	11,00	11,76	12,47	13,14
18,0	4,04	5,71	7,00	8,08	9,04	9,90	10,69	11,43	12,12	12,78
18,5	3,93	5,56	6,81	7,86	8,79	9,63	10,40	11,12	11,79	12,43
19,0	3,83	5,41	6,63	7,66	8,56	9,38	10,13	10,83	11,48	12,11
19,5	3,73	5,27	6,46	7,46	8,34	9,14	9,87	10,55	11,19	11,79
20.0	3.64	5,14	6,30	7.27	8,13	8,91	9,62	10,29	10,91	11.50





## 11.3. Calculation of the effective current

For the dimensioning of the heating circuit, the effective current is calculated on the basis of the following general equation:



the following applies: I100% corresponds to the current at 100% and ED to the switch-on duration in %.

## 11.4. Measurement of the effective current

Only high-quality measuring devices capable of processing signals with a frequency 5 Hz are suitable for measuring these currents. On the basis of internal examinations, we can recommend the following measuring devices for the current measurement of the full-wave control.

- a. FLUKE SCOPMETER series with AC/DC current clamp FLUKE type 80i-110s
- b. METRIX MX 26 with CHAUVIN ARNOUX AC/DC current clamp type E6N CVH 1-100/1
- c. METRIX MX 56 with CHAUVIN ARNOUX AC/DC current clamp type E6N CVH 1/100/1

## 12. Type label



Do not open in potentially dust atmosphere!



If you have any questions, please do not hesitate to contact us under telephone number +49 6221 3646-0 or fax number +49 6221 3646-40 or our e-mail address: <u>sales@winkler.eu</u>.





## 13. Construction details





- Mounting accessories (4 threaded screws) Additional glands (1xM20; 2xM16)
  2 links for two-wire PT100



Earthing clamp exterior





## 14. Connection types of PT100 sensors

## 3-wire connection (standard)

In the case of a 3-wire connection, the cable length up to the terminal box is automatically compensated by the heating control. The illustration shows the corresponding conditions:



## 2-wire connection (optional)

In the case of a 2-wire connection, it is possible – depending on the wire crosssection – to use a max. cable length that tolerates a 2K increase of the indicated temperature:

## 2-wire connection with compensation

If, with a 2-wire connection, the above cable lengths are exceeded or if no measurement drift is permissible, manual compensation at the heating control may be implemented as follows:

## Preconditions

- The device must be connected on the power supply and load side.
- A terminal link is installed at sensor input terminals 8-9 and 11-12 (see picture below).
- The two sensor connection wires are connected to terminal 9 and 10 as well as 12 and 13.
- Connected to each wire at the other end there msust be a calibration resistance of  $100\Omega$  with a resistance tolerance of 0,1% instead of the Pt100 sensor.
- In order to access the balancing elements, the front panel of the device has to be removed by undoing the three fastening screws.

## Terminal link 2x

## Balancing

- When the operating voltage is switched on, the controller and The limiter will display a temperature value of a few degrees; this value depends on the wire cross-section and length.
- To adjust the display value to zero, use a suitable screwdriver and turn it to the left at the adjustment potentiometer "zero balance controller" and "zero balance limiter".
  Subsequently, screw the front panel back on.
- After replacing the calibration resistances by the Pt100 sensors, the balancing task is completed.



Please note: When changing again to 3-wire Pt100 sensors, the device needs to be readjusted. For this purpose, link again terminals 8+9 and 11+12, and then connect the  $100\Omega$  resistance on the device to terminals 9+10 and 12+13.

When this is completed, adjust the zero balance at the two potentiometers (s. picture).







## 15. Overview of switching conditions of the fault indicator relay in short (clamp 3,4,5)



## Contact condition > clamp 3 and 4 opened (3 and 5 closed):

- device is powerless or/and
- Iimiter switched off and locked due to exceedance of limiter target temperature (red limiter alarm indicator illuminated); the limiter must be unlocked by hand
- > the temperature fell below the set low value alarm temperature T2

## Contact condition > clamp 3 and 4 closed (3 and 5 opened):

normal operating condition

### Table:

10010.							
all operating/fault conditions	controller 7 seg indication	LED green	limiter 7 seg indication	LED red	relay clamp 3-4common	relay clamp 3-5 common	limiter lockina
			g		fault	fault	
controller is besting	tomporaturo valuo	o	4 4 · ·· · ·-1 · ·-	- 44			
	temperature value		temperature value	011	ciosed	open	no
(is in holding temperature range)	temperature value	οπ	temperature value	οπ	closed	open	no
controller T2 low value alarm	temperature value	on	temperature value	off	open	closed	no
controller Pt100 interruption	"UUU" flashing	off	temperature value	off	open	closed	no
controller Pt100 Sense interruption	"UU" flashing	off	temperature value	off	open	closed	no
controller Pt100 short circuit	"" flashing	off	temperature value	off	open	closed	no
controller Pt100 connection too long	temp. flashing	off	temperature value	off	open	closed	no
limiter temperature exceedance	temperature value	on or off	temperature value	on	open	closed	yes
limiter Pt100 interruption	temperature value	on or off	"UUU" flashing	on	open	closed	yes
limiter Pt100 Sense interruption	temperature value	on or off	"UU" flashing	on	open	closed	yes
limiter Pt100 short circuit	temperature value	on or off	"" flashing	on	open	closed	yes
limiter Pt100 connection too long	temperature value	on or off	temp. flashing	on	open	closed	no
overheating of device	off	off	off	off	open	closed	no
breakdown of supply voltage	off	off	off	off	open	closed	no
	1	1	1		1	1	





## 16. Dimensions / Hole pattern







CERT AM WU-H (05:05 | 5000 | dia/ ////

Instructions for Installation and Operation ATEX digital controller combination WEXRBL25-230ZESBH



## 17. EC Type Examination Certificate and EU Declaration of Conformity

			$\frown$
	Translation	21 803 7020 100 <b>22</b> 1000	TAINODA
(1)	EC-Type Exam	ination Certificate	IUV NUKU
(2)	Equipment and protective	systems	
	explosive atmospheres, D	irective 94/9/EC	(Ex)
(3)	Certificate Number	TÜV 10 ATEX 556065	
(4)	for the equipment:	Digital Ex-controller-limiter-p combination type WEXRBL25-230ZE000	ower actuator-
(5)	of the manufacturer:	Winkler GmbH	
(6)	Address:	Englerstraße 24	
		69126 Heidelberg	
	a an	Germany	
	Order number:	8000556065	
	Date of issue:	2010-09-21	
(7)	This equipment or protect	ive system and any acceptable var	iation thereto are specified in the
(8)	schedule to this certificate The TÜV NORD CERT G Directive of the EC of Mar has been found to comp	e and the documents therein referre mbH, notified body No. 0044 in a rch 23, 1994 (94/9/EC), certifies th oly with the Essential Health and	ad to. ccordance with Article 9 of the Col at this equipment or protective sys Safety Requirements relating to
(8)	schedule to this certificate The TÜV NORD CERT G Directive of the EC of Mar has been found to comp design and construction explosive atmospheres g recorded in the confidentia Compliance with the Esse with:	and the documents therein referre mbH, notified body No. 0044 in a rch 23, 1994 (94/9/EC), certifies th oly with the Essential Health and of equipment and protective sys- iven in Annex II to the Directive. al report No. 10 203 556065. Initial Health and Safety Requireme	and the theorem of the specified in the edito. coordance with Article 9 of the Co at this equipment or protective sys Safety Requirements relating to stems intended for use in poten The examination and test results nts has been assured by compliar
(8)	schedule to this certificate The TÜV NORD CERT G Directive of the EC of Mar has been found to comp design and construction explosive atmospheres g recorded in the confidentia Compliance with the Esse with: EN 60079-0:2009 EN 60079-18:2004	e and the documents therein referre mbH, notified body No. 0044 in au rch 23, 1994 (94/9/EC), certifies th oly with the Essential Health and of equipment and protective sys- iven in Annex II to the Directive. al report No. 10 203 556065. Initial Health and Safety Requireme EN 60079-7:2003 EN 60079-31:2009	EN 60079-11:2007
(8) (9) (10) (11)	schedule to this certificate The TÜV NORD CERT G Directive of the EC of Mai has been found to comp design and construction explosive atmospheres gi recorded in the confidentia Compliance with the Esse with: EN 60079-0:2009 EN 60079-18:2004 If the sign "X" is placed a system is subject to specia This EC-type examinatio specified equipment in ac apply to the manufacturin certificate	e and the documents therein referre mbH, notified body No. 0044 in a rch 23, 1994 (94/9/EC), certifies th oly with the Essential Health and of equipment and protective sys- iven in Annex II to the Directive. al report No. 10 203 556065. Initial Health and Safety Requireme EN 60079-7:2003 EN 60079-31:2009 after the certificate number, it indi- al conditions for safe use specified n certificate relates only to the cordance to the Directive 94/9/EC in process and supply of this equi	Alton therefore are specified in the edito. Scordance with Article 9 of the Coi at this equipment or protective sys Safety Requirements relating to stems intended for use in poten The examination and test results ints has been assured by complian EN 60079-11:2007 cates that the equipment or protect in the schedule to this certificate. design, examination and tests of Further requirements of the Direct pment. These are not covered by
<ul><li>(8)</li><li>(9)</li><li>(10)</li><li>(11)</li><li>(12)</li></ul>	schedule to this certificate The TÜV NORD CERT G Directive of the EC of Mar has been found to comp design and construction explosive atmospheres gi recorded in the confidentia Compliance with the Esse with: EN 60079-0:2009 EN 60079-18:2004 If the sign "X" is placed a system is subject to speci This EC-type examinatio specified equipment in ac apply to the manufacturin certificate.	e and the documents therein referre imbH, notified body No. 0044 in ac rch 23, 1994 (94/9/EC), certifies th oly with the Essential Health and of equipment and protective sys- iven in Annex II to the Directive. al report No. 10 203 556065. Initial Health and Safety Requirement EN 60079-7:2003 EN 60079-31:2009 after the certificate number, it indic al conditions for safe use specified n certificate relates only to the cordance to the Directive 94/9/EC g process and supply of this equi-	and the theorem and the specified in the edited to. coordance with Article 9 of the Cou at this equipment or protective sys Safety Requirements relating to stems intended for use in potent The examination and test results inter has been assured by complian EN 60079-11:2007 cates that the equipment or protect in the schedule to this certificate. design, examination and tests of Further requirements of the Direct pment. These are not covered by lude the following:
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<ul><li>(8)</li><li>(9)</li><li>(10)</li><li>(11)</li><li>(12)</li></ul>	schedule to this certificate The TÜV NORD CERT G Directive of the EC of Man has been found to comp design and construction explosive atmospheres gi recorded in the confidentia Compliance with the Esse with: EN 60079-0:2009 EN 60079-18:2004 If the sign "X" is placed a system is subject to speci. This EC-type examinatio specified equipment in ac apply to the manufacturin certificate. The marking of the equipm $\langle Ex \rangle$ II 2 G Ex e ib [ib 0 II 2 D Ex th IIIC IF	e and the documents therein referre imbH, notified body No. 0044 in ac rch 23, 1994 (94/9/EC), certifies th oly with the Essential Health and of equipment and protective sys- iven in Annex II to the Directive. al report No. 10 203 556065. Initial Health and Safety Requireme EN 60079-7:2003 EN 60079-31:2009 after the certificate number, it india al conditions for safe use specified n certificate relates only to the coordance to the Directive 94/9/EC g process and supply of this equi ment or protective system must inc Gb] mb IIC T4 Gb P 6X T90 °C Db gemarckstraße 20, 45141 Essen, accredite Nr. 0044, legal successor of the TÜV NO	and the entral office of the countries for red to. coordance with Article 9 of the Co at this equipment or protective sys Safety Requirements relating to stems intended for use in poten The examination and test results ints has been assured by complian EN 60079-11:2007 cates that the equipment or protection in the schedule to this certificate. Jesign, examination and tests of Further requirements of the Direction pment. These are not covered by ude the following:
<ul><li>(8)</li><li>(9)</li><li>(10)</li><li>(11)</li><li>(12)</li></ul>	schedule to this certificate The TÜV NORD CERT G Directive of the EC of Mar has been found to comp design and construction explosive atmospheres g recorded in the confidentia Compliance with the Esse with: EN 60079-0:2009 EN 60079-18:2004 If the sign "X" is placed a system is subject to speci. This EC-type examinatio specified equipment in ac apply to the manufacturin certificate. The marking of the equipm (Ex) II 2 G Ex e ib [ib 0 II 2 D Ex th IIIC IF TÜV NORD CERT GmbH, Lang safet/ engineering (ZLS), Ident. The nead of the certificated Schwedt	e and the documents therein referre imbH, notified body No. 0044 in ac rch 23, 1994 (94/9/EC), certifies th oly with the Essential Health and of equipment and protective sys- iven in Annex II to the Directive. al report No. 10 203 556065. Initial Health and Safety Requireme EN 60079-7:2003 EN 60079-31:2009 after the certificate number, it indi- al conditions for safe use specified n certificate relates only to the cordance to the Directive 94/9/EC ig process and supply of this equi- ment or protective system must inc Gb] mb IIC T4 Gb P 6X T90 °C Db gemarckstraße 20, 45141 Essen, accredite Nr. 0044, legal successor of the TUV NO on body	Alton the electronic spectrum of the feat or. Secondance with Article 9 of the Co- at this equipment or protective sys- Safety Requirements relating to stems intended for use in poten The examination and test results ints has been assured by complian EN 60079-11:2007 States that the equipment or prote- in the schedule to this certificate. Jesign, examination and tests of Further requirements of the Dire- pment. These are not covered by lude the following: d by the central office of the countries for RD CERT GmbH & Co. KG Ident. Nr. 003:
<ul><li>(8)</li><li>(9)</li><li>(10)</li><li>(11)</li><li>(12)</li></ul>	schedule to this certificate The TÜV NORD CERT G Directive of the EC of Mai has been found to comp design and construction explosive atmospheres gi recorded in the confidentia Compliance with the Esse with: EN 60079-0:2009 EN 60079-18:2004 If the sign "X" is placed a system is subject to specia This EC-type examinatio specified equipment in ac apply to the manufacturin certificate. The marking of the equipm (Ex) II 2 G Ex e ib [ib 0 II 2 D Ex tb IIIC IF TÜV NORD CERT.GmbH, Lang safety engineering (ZLS), Ident. The nead of the certification Schwedt Hanover office, Am TÜV 1, 305	e and the documents therein referre imbH, notified body No. 0044 in ac rch 23, 1994 (94/9/EC), certifies th oly with the Essential Health and of equipment and protective sys- iven in Annex II to the Directive. al report No. 10 203 556065. Initial Health and Safety Requirement EN 60079-7:2003 EN 60079-31:2009 after the certificate number, it indic al conditions for safe use specified n certificate relates only to the coordance to the Directive 94/9/EC g process and supply of this equi ment or protective system must inc Gb] mb IIC T4 Gb P 6X T90 °C Db gemarckstraße 20, 45141 Essen, accredite . Nr. 0044, legal successor of the TUV NO on body 19 Hanover, Fon +49 (0)511 986 1455, Fa	a to. Scordance with Article 9 of the Cou at this equipment or protective sys Safety Requirements relating to stems intended for use in potent The examination and test results ints has been assured by complian EN 60079-11:2007 States that the equipment or protect in the schedule to this certificate. design, examination and tests of Further requirements of the Direct pment. These are not covered by lude the following: d by the central office of the countries for RD CERT GmbH & Co. KG Ident. Nr. 0032 x +49 (0)511 986 1590
<ul> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> </ul>	schedule to this certificate The TÜV NORD CERT G Directive of the EC of Mar has been found to comp design and construction explosive atmospheres gi recorded in the confidentia Compliance with the Esser with: EN 60079-0:2009 EN 60079-0	e and the documents therein referre imbH, notified body No. 0044 in au rch 23, 1994 (94/9/EC), certifies th oly with the Essential Health and of equipment and protective sys- iven in Annex II to the Directive. al report No. 10 203 556065. Initial Health and Safety Requirement EN 60079-7:2003 EN 60079-31:2009 after the certificate number, it indiv al conditions for safe use specified n certificate relates only to the of cordance to the Directive 94/9/EC g process and supply of this equil ment or protective system must inc Gb] mb IIC T4 Gb P 6X T90 °C Db generckstraße 20, 45141 Essen, accredite Nr. 0044, legal successor of the TÜV NO on body	Alton therefore are openined in the edito. Scordance with Article 9 of the Cou at this equipment or protective sys Safety Requirements relating to stems intended for use in potent The examination and test results Interstate the equipment or protect in the schedule to this certificate. design, examination and tests of Further requirements of the Direct pment. These are not covered by lude the following: d by the central office of the countries for RD CERT GmbH & Co. KG Ident. Nr. 0032 x +49 (0)511 986 1590 chedule included. CERT GmbH





		TJV NOR
(13) <b>S</b>	CHEDULE	
(14) <b>E</b> (	C-Type Examinatio	n Certificate No. TÜV 10 ATEX 556065
(15) De	scription of equipment	
In conjur combina heating o in terms	nction with PT100 resistan tion type WEXRBL25-230 equipment used in explosi of a full wave control.	nce thermometers, the digital Ex-controller-limiter-power acuator- DZE000 serves for temperature control and temperature limitation ion hazardous areas. The apparatus also includes a power section
The safe	function as monitoring de	evice for thermal processes is not object of this EC-Type
Examina	tion Certificate.	
Permissi	ble explosion hazardous a	area:
Zone	Goup	Marking of the annaratus
Lune		II 2 G
1		Ex e ib [ib Gb] mb IIC T4 Gb
21	with conductive dust	
An opera gases (h	ation in explosion hazardo ybrid mixtures) is not allou	us areas caused by coincidental presence of explosive dust and wed.
An opera gases (h The perr	ation in explosion hazardo ybrid mixtures) is not allou nissible ambient temperat	us areas caused by coincidental presence of explosive dust and wed.
An opera gases (h The perr <u>Electrica</u> Supply v (Connec	ation in explosion hazardo ybrid mixtures) is not allov nissible ambient temperat <u>I data</u> oltage tions L1, N, PE)	LEX INCLIPSX 190 °C DB bus areas caused by coincidental presence of explosive dust and wed. ture range is -20 °C +40 °C. 230 V, -15%/+10%, 50 60 Hz
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An opera gases (h The perr <u>Electrica</u> Supply v (Connec Internal 1 (Connec Load out (Connec	ation in explosion hazardo ybrid mixtures) is not allow nissible ambient temperat <u>I data</u> oltage tions L1, N, PE) fuses tions F1 and F2) uput	<ul> <li><u>Ex to file IPOX 190 °C Db</u></li> <li>us areas caused by coincidental presence of explosive dust and wed.</li> <li>ture range is -20 °C +40 °C.</li> <li>230 V, -15%/+10%, 50 60 Hz</li> <li>only for connection to fuses according to EC-Type Examination Certificate TÜV 07 ATEX 553973 U</li> <li>for connection to heating devices</li> </ul>
An opera gases (h The perr <u>Electrica</u> Supply v (Connec Load out (Connec External (Connec	ation in explosion hazardo ybrid mixtures) is not allow nissible ambient temperat <u>I data</u> oltage tions L1, N, PE) fuses tions F1 and F2) tions 1 and 2) release tions 6 and 7)	<ul> <li>Ex to file iPoX 190°C Db</li> <li>bus areas caused by coincidental presence of explosive dust and wed.</li> <li>ture range is -20 °C +40 °C.</li> <li>230 V, -15%/+10%, 50 60 Hz</li> <li>only for connection to fuses according to EC-Type Examination Certificate TÜV 07 ATEX 553973 U</li> <li>for connection to heating devices</li> <li>connected with the supply voltage; only for connection to a pushbutton (250 V a. c.; 0.1 A)</li> </ul>
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An opera gases (h The perr <u>Electrica</u> Supply v (Connec Internal (Connec External (Connec Output ta (Connec	ation in explosion hazardo ybrid mixtures) is not allow nissible ambient temperat <u>I data</u> oltage tions L1, N, PE) fuses tions F1 and F2) tput	<ul> <li>Ex to file iPoX 190°C DB</li> <li>bus areas caused by coincidental presence of explosive dust and wed.</li> <li>ture range is -20 °C +40 °C.</li> <li>230 V, -15%/+10%, 50 60 Hz</li> <li>only for connection to fuses according to EC-Type Examination Certificate TÜV 07 ATEX 553973 U</li> <li>for connection to heating devices</li> <li>connected with the supply voltage; only for connection to a pushbutton (250 V a. c.; 0.1 A)</li> <li>1 change-over contact; permissible values: 250V a. c., 5A, 100VA resp. 24V d. c., 5A, 100W</li> </ul>
An opera gases (h The perr <u>Electrica</u> Supply v (Connec Internal (Connec External (Connec Output to (Connec	ation in explosion hazardo ybrid mixtures) is not allow nissible ambient temperat idata oltage tions L1, N, PE) fuses tions F1 and F2) tons 1 and 2) release tions 6 and 7) emperature alarm tions 3, 4, 5)	<ul> <li>Ex to file iPoX 190 °C DB</li> <li>bus areas caused by coincidental presence of explosive dust and wed.</li> <li>ture range is -20 °C +40 °C.</li> <li>230 V, -15%/+10%, 50 60 Hz</li> <li>only for connection to fuses according to EC-Type Examination Certificate TÜV 07 ATEX 553973 U</li> <li>for connection to heating devices</li> <li>connected with the supply voltage; only for connection to a pushbutton (250 V a. c.; 0.1 A)</li> <li>1 change-over contact; permissible values: 250V a. c., 5A, 100VA resp. 24V d. c., 5A, 100W</li> </ul>
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An opera gases (h The perr <u>Electrica</u> Supply v (Connec Internal (Connec External (Connec Output ta (Connec	ation in explosion hazardo ybrid mixtures) is not allow nissible ambient temperat il data oltage tions L1, N, PE) fuses tions F1 and F2) ture tions 1 and 2) release tions 6 and 7) emperature alarm tions 3, 4, 5)	<ul> <li>Ex to file IPOX 190°C DB</li> <li>bus areas caused by coincidental presence of explosive dust and wed.</li> <li>ture range is -20 °C +40 °C.</li> <li>230 V, -15%/+10%, 50 60 Hz</li> <li>only for connection to fuses according to EC-Type Examination Certificate TÜV 07 ATEX 553973 U</li> <li>for connection to heating devices</li> <li>connected with the supply voltage; only for connection to a pushbutton (250 V a. c.; 0.1 A)</li> <li>1 change-over contact; permissible values: 250V a. c., 5A, 100VA resp. 24V d. c., 5A, 100W</li> </ul>





			/
			TIV NOR
Schedule EC-Type Examination Certi	ficate No. TÜV 10 ATEX 556065		
Measuring circuits	in type of protection Intrinsic S	afety Ex ib I	IC/IIB
(Connections 8, 9, 10 [closed loop control] and 11, 12, 13 [limiter] )	Maximum values per circuit: $U_o = 6.3 V$ $I_0 = 22 mA$ P = 35 mW		
	Characteristic line: linear		
	Only for connection to Pt100 re	esistance ther	mometers
	Ex ib	IIC	IIB
	max. permissible external inductance	10 mH	10 mH
	max. permissible external capacitance	1.5 µF	8.2 µF
	The values for IIB and for IIC dust atmospheres.	are also perm	issible for explosiv
Hints for erection and operation:			
1. At dangers by explosive dust a	mospheres, the housing must not	be opened.	
<ol><li>The circuit "Load input" has to I</li></ol>	be fused externally with max. 25 A	- C	
<ol><li>The apparatus has to be erected for the cable entries.</li></ol>	ed in such a way, that only a low ris	sk of mechani	cal danger exists
<ol><li>All connection cables have to b</li></ol>	e installed fixed.		
<ol><li>The Pt 100 sensors connected have to be assessed according</li></ol>	to the intrinsically safe circuits are to section 5.7 of EN 60079-11.	simple electri	cal apparatus and
<ol><li>The maximum values of the tak concentrated capacitances and</li></ol>	ples are also allowed to be used up inductances.	o to the permis	sible values by
<ol> <li>The intrinsically safe measuring safe circuits up to a peak crest The intrinsically safe measuring</li> </ol>	g circuits are safely galvanically se value of the voltage of 375 V. g circuits are safely separated from	parated from	he non-intrinsically ential.
These hints are content of the ma	nufacturer`s manual.		
	d in the test report No. 10 203 556	6065.	
(16) The test documents are liste			
<ul><li>(16) The test documents are lister</li><li>(17) Special conditions for safe u</li></ul>	se		
<ul><li>(16) The test documents are lister</li><li>(17) Special conditions for safe unone</li></ul>	se		
<ul> <li>(16) The test documents are lister</li> <li>(17) Special conditions for safe unone</li> <li>(18) Essential Health and Safety</li> </ul>	se Requirements		





# EU-DECLARATION OF CONFORMITY winkler.eu

Manufacturer	: WINKLER AG Englerstraße 24 69126 Heidelberg	
Contact	: Tel.: ++ 49 (0) 6221-3646-0 sales@winkler.eu	Fax.: ++ 49 (0) 6221-3646-40 www.winkler.eu
Product group	: ATEX digital controller combin	ation
Product	WEXRBL25-230Z	E
Directives	: DIRECTIVES 2014/34/EU (ATEX) "of the European Parliaments and Council Members States relating to equipment and explosive atmospheres" Annex III EU-Type	of 26 February 2014 on the harmonisation of laws of protective systems intended for use in potentially -Examination
We hereby declare th requirements of the	at in planning and manufacturing EU Directives mentioned above ha	of this product the basic safety and health ave been observed.
Identification	CE0123 🐼 II 2G Ex e ib [ib CE0123 🐼 II 2D Ex tb IIIC I	Gb] mb IIC T4 Gb P6X T90°C Db
EC Type Examination	Certificate: TÜV 10 ATEX 55	<mark>6065</mark>
Further rules and tec	hnical specifications applied:	
EN 1127-1:2011 EN 60079-0/A11:2014	EN 60079-7: 2016 4 EN 60079-11: 2012	EN 60079-18: 2015 EN 60079-31: 2014
Any modification to t	the product without our consent <b>v</b>	will make this declaration invalid.
Heidelberg, Februa	ary 1 <sup>th</sup> 2019	Winkler AG

Andreas Zenner CEO



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CERTIFICAT CERTIFICATE ٠ **CERTIFICADO** The Certification Body of TÜV SÜD Management Service GmbH certifies that o winkler.eu ٠ СЕРТИФИКАТ Winkler AG Englerstr. 24 69126 Heidelberg Germany has established and applies a Quality Management System for ٠ Development, manufacture and sales of heat engineering products with control and monitoring systems. 書語語語 An audit was performed, Report No. 70002379. Proof has been furnished that the requirements according to ٠ CERTIFICATE ISO 9001:2015 are fulfilled. The certificate is valid from 2018-10-23 until 2021-04-19. Certificate Registration No.: 12 100 28096 TMS. H. Mage The Management Management ZERTIFIKAT TOV S0D Management Service Gribil • Zerificierungsstelle • Heikenstresse 85 • 80338 Mänchen • Getmany www.tuw.saed.de/carificate-validity-check TUV®

CERTIE	Product quality as No. EX3A 18 07 2956	surance notification	
•			
TIFICADO	Holder of Certificate:	Winkler GmbH Englerstraße 24 69126 Heideberg GERMANY	
CER	Factory(ies):	Winkler GmbH Kleinfeldweg 38, 69190 Walldorf, GERMANY	
•		Winkler GmbH Englerstraße 24, 69126 Heidelberg, GERMANY	
EPINONK	Scope of Certificate: 🕢	curing tube, heating sleeve, modulator-delimiter-power controller-combination Equipment Group II, category 2 G/D protection level "e", "r", "m", "t"	
•	The certification body of TÜV S( maintains a quality system which 2014/34/EU for Equipment and p	ID Product Service GmbH certifies that the certificate holder fulfils the requirements of Annax VII of Directive No. protective systems intended for use in potentially exclosive	
NALAH 1	atmospheres (ATEX). The Valid notes overleaf.	ty of this Certificate requires periodical surveillance. See also	
нанары	atmospheres (ATEX). The Valid notes overleaf.	ty of this Certificate requires periodical surveifance. See also 713133503	
	atmospheres (ATEX). The Valid notes overlead. Report no.: Valid until:	ty of this Certificate requires periodical surveilance. See also 713133503 2021-05-23	
	atmospheres (ATEX). The Valid notes overlead. Report no.: Valid until:	ty of this Certificate requires periodical surveillance. See also 713133503 2021-05-23 John F. Thilmen	
	atmospheres (ATEX). The Valid notes overneed. Report no.: Valid until: Date, 2018-07-13.	ty of this Certificate requires periodical surveitance. See also 713133903 2021-05-23 /////. (Norbert Thirms)	
INAI V CENIIFICAIE V ROBERT	atmospheres (ATES). The Valid notes overfield. Report no.: Valid until: Date, 2018-07-13. TUV SDD Product Service Gmb equipment and produce system (domined and produce system)	ty of this Certificate requires periodical surveillance. See also 713133503 2021-05-23 	
KIILIKAI ◆ CERIILICAIE ◆ 認識題:	atmospheres (ATEX). The Valid notes overhead. Report no.: Valid until: Date, 2018-07-13 TUV SUD Product Service Gmb sourceston of productive system sourceston output 0123. Page 1 of 1	ty of this Certificate requires periodical surveitance. See also 713133503 2021-05-23 	





## **Contact Information/ Technical Support**

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