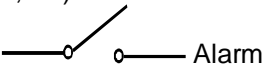


Data Sheet

<p>Current Supply Powerside Connections: GND (X16), (+) 10V up to (+) 24V rated power (X15)</p>	<p>Nominal: Direct Current 10V up to 24V Maximal: 30 V Fuse: 20A Flink</p>
<p>Fuses</p>	<p>Exchange only at uwe electronic</p>
<p>Current Supply Logicside Connections: GND (X10), +24V Elektronik (X9)</p>	<p>Is only of importance, if current supply of Powerside differs from the nominal 24 Volt. The supply is 24V (maximal 30V) and max. 150mA. An operation with less than 24V is possible as an option.</p>
<p>Fans Connections: FAN –LH (X11), FAN-LC(X12)</p>	<p>Semiconductor switch on GND. Max. current 1A. Excess voltage protection via Suppressor Diode. Nominal switching voltage 24V. Max. 30V</p>
<p>Alarm outlet (X7, X8) Connections: </p>	<p>Relay contact (closing contact) Nominal switching voltage 24V DC/ AC Nominal switching current 1A Unsecured outlet</p>
<p>Serial Interface Connections: GND (X4), RS232-RX (X1), RS232-TX (X2)</p>	<p>EIA-232 conform 9600 Baud No parity 1 Stop Bit No flow control</p>
<p>Temperature sensor input Connections: GND (X4), Sensor T0 (Lead sensor) (X6), Sensor T1 (only necessary for difference controller use) (X3)</p>	<p>Provided and tested Sensors, which are CE-compliant. NTC R₂₅-10 kOhm Temperature resolution at 25°C: 0.1°C</p>
<p>Peltier-Colling Unit Connections: (-) Peltier (X14), (+) Peltier (X13)</p>	<p>Nominal 24V/ 16A up to an ambient temperature of 40°C with sufficient ventilation. If used up to max. 45°C a lower performance has to be taken in calculation</p>
<p>Controller Application range and measurement resolution</p>	<p>The application range starts from Set-Point minus 34.9°C up to plus 144.9°C. This huge application range requires two areas with different measurement resolution areas. This controller is designed for a measurement resolution of 0.1°C from 0°C up to 59.9°C (normal range). From - 34.9°C up to 144.9°C (extended range) the measurement resolution is 1°C. Both ranges are equipped with two switch-hysteresis.</p>
<p>Emergency shutdown temperature for Peltier-Cooling Unit</p>	<p>The unit is programmable up to max. 144.9°C. (Err 1)</p>
<p>Controller internal thermal emergency shutdown</p>	<p>In case the inner controller temperature exceeds 85°C the Powerside will be shut down and an error is shown. (Err 2)</p>
<p>Normal ambient conditions</p>	<p>a) Indoor use only; b) Altitude up to 2,000m; c) Ambient temperature from 5°C up to 40°C; d) max. relative humidity 80% at temperatures up to 31°C, linear decreasing down to 50% relative humidity at 40°C; e) Power supply deviation up to ± 10 %.</p>