

# Display and control unit DCU 200

## For PYROSPOT pyrometers

### Overview

#### Display unit DCU 200



### General information

With the display and control unit DCU 200 the connection of DIAS pyrometers PYROSPOT is easy to handle. For this the DCU 200 has connections for 2- as well as 4-wire pyrometers. You can choose the type via selector switch S2 at the front side of the DCU 200.

The integrated display provides the presentation of the temperature value via power output of the pyrometer. Therefore the display has to be scaled to the adequate measuring range of the pyrometer. This can be done with the control panel of the display or via software PYROSOFT Spot Pro.

The communication with the pyrometer and the display is made via the interfaces RS485-pyrometer and RS485-display. To get a connection to a USB-interface, please use our interface module RS485 to USB, part number 3310A14020.



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Technical data	
Type	DCU 200
Power supply	far range 100 to 240 V AC 50/60 Hz
Data links	2Wire pyrometer clamp connections 4Wire pyrometer plugin-/bolted connection 12 pin RS-485 pyrometer sub-D 9 pin RS-485 display sub-D 9 pin
Fuses	F1 T1.6 A power supply fuse (100 bis 240 V AC) F2 T2.0 A switch-mode power supply (24 V DC)
Sampling interval of display	20 ms (50 measurements per second)
Measurement uncertainty of display	± 0.1 % of measured value ± 1 digit
Alarm outputs	optional on request: 2x relays, max. 250 V AC, 5 A (ohmic load)
Protection class	IP40
Safety class	I (safety function with protective conductor)
Dimensions	224 × 132 (120) × 224 (200) mm, W × H × D dimensions ( ) housing only
Operating temperature	-10 °C to 55 °C
Storage temperature	-25 °C to 65 °C

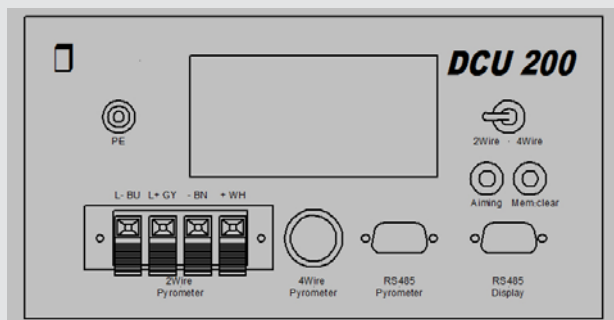
### Controls and display elements

#### Connection of the power supply

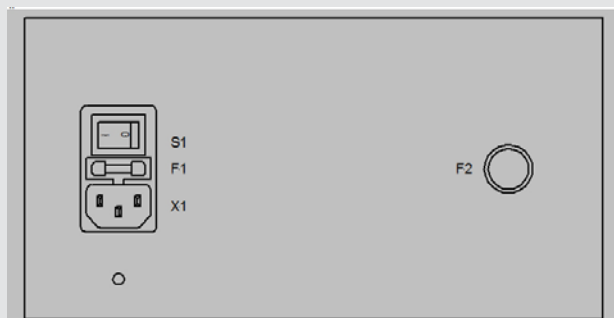
A voltage of 100 to 240 V AC is needed for the operating of the display. The connection has to be effected via rubber connector X1 at the back side of the device. To use the display, turn on the main breaker S1 at the back side.

The fuses F1 and F2 are also at the back of the device. Please notice the figures below and specifications of the technical data.

#### Overview: connections and controls



Frontal view with display elements and controls



Back side with main breaker, fuse and rubber connector

#### Detailed view: integrated display



If you press the key LEVEL more than three seconds, the setting menu opens.

You can change the respective parameter by choosing the MODE key. The current preset value will be shown in the lower display line.

By pressing the SHIFT key, you will get to the changing menu. You can change the value by pressing the UP key.

By renewed pressing of the MODE key the value will be accepted.

To return to the measuring mode, you have to press the LEVEL key for more than one second.