

OPERATION MANUAL

MOTO | TYRE WARMERS

Temperature Control Unit TCU-2Duo

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Fully electronic, programmable, mikroprozessor controlled temperature controller and display for two KLS tyrewarmers.

A. General

The digital temperature controller "TCU-2Duo" controls separately the heating of two KLS tyrewarmers with integrated temperature sensors.

The two controllers with a common LED Display, 4 LED's and 6 buttons is easy to adjust and because of its rugged design especially suited for motorcycle racing.

The controllers (TEMP 1 / TEMP 2) and the setpoint settings can be adjusted with the regarding buttons directly.



B. Description

13 mm LED-Display (self lighting temperature display);

Separate pre-adjustment for 4 temperatures (HIGH-level: front/rear; LOW-Level: front/rear)

Mikroprozessor controlled and programmable by a keypad and a High/Low quickswitch;

Digital temperature adjustment of the requested and automatic display of the actual temperatures of the tyres

2 LED's ("1" / "2") to indicate the actual indicated temperature "TEMP1" or "TEMP2"

LED "1" lighting: "TEMP1" is actually heating! LED "2" lighting: "TEMP2" is actually heating!

Alarm function: Display is blinking if there is a temp sensor failure ("F1H"/"F1L").

4-pole cable & plugs to the tyrewarmers.

Voltage: 220 - 240 V

C. Operation

Connect TCU-tyrewarmers to the TCU-2Duo.

The tyrewarmers connected to the TCU-2Duo have short connection cables with 4-pol. plugs and integrated temperature sensors.

D. Colour marks fixed to the connection cables

Cable colour marks for rear and front tyre!

"TEMP1"	Rear tyre	Red
"TEMP2":	Front Front	Yellow
POWER SUPPLY		Black

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E. Adjustments (1x for "High" temp, 1x for "Low" temp)

When no button is pushed, the common display shows the actual temperatures of the tyre surfaces of the the front and rear tyre alternatively for 3 seconds each

The LED's "TEMP1" and „TEMP2" indicate, which temp is actually shown on the display.

The lighting LED's „1" und „2" show, which tyrewarmer is actually heated.



The buttons:



Button "UP":

By pushing that button the value of the selected parameter "P" will be increased



Button "DOWN"

By pushing that button the value of the selected parameter "P" will be decreased



Button "TEMP2"

By pushing that button the display shows the set heating temperature "TEMP2", Keep button pushed to adjust the set heating temperature of TEMP2 with the "UP" or "DOWN" buttons. For fixing your adjustment release the "TEMP2" button at last.



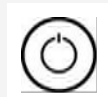
Button "OFF 2"

Pushing that button controller "TEMP2" will be switched to "OFF". Again pushing it, will switch the controller "TEMP2" to "ON" again.



Button "TEMP1"

Keep button pushed to adjust the set heating temperature of TEMP1 with the "UP" or "DOWN" buttons. For fixing your adjustment release the "TEMP1" button at last.



Button "OFF 1"

Pushing that button, controller "TEMP1" will be switched to "OFF". Another push will switch the controller "TEMP1" to "ON" again.

The TCU Duo controller is pre adjusted like follows:

Switchposition "LO":
Temp1 and Temp2 = 55°C

Switchposition "HI":
Temp1 and Temp2 = 85°C