

## Potentiometer Module with 1- or 20-turn Potentiometer    MU1 / MU2

### Description:

- **Precision potentiometer**
- **MU1: 1-turn potentiometer**
- **MU2: 20-turn wire-wound potentiometer**
- **Additional mounting locations**
- **Mountable on cap rail TS35**

### Characteristics:

The potentiometer modules are including one 1-turn cermet potentiometer (MU1) resp. one 20-turn cermet potentiometer (MU2).

Two component mounting positions are used for switching the potentiometer in in- and output, therefore they are intended to take up pull up and pull down resistors.

If this is not necessary, at each mounting position a wire bridge has to be soldered. In the delivery condition the soldering points are closed, so that additional soldering work is not necessary. The connection is made by means of two screw-type terminals 2,5mm<sup>2</sup> chambers. The modules are mountable on rail TS15, TS32 or TS35.

### Application:

Adjusting of the set point input in the control desk -cabinet. Adjusting of external operating points. Adjusting of the actual values.

### Order Code:

MU1	-	1-turn potentiometer, resistance value: in kΩ
MU2	-	20-turn potentiometer, resistance value: in kΩ

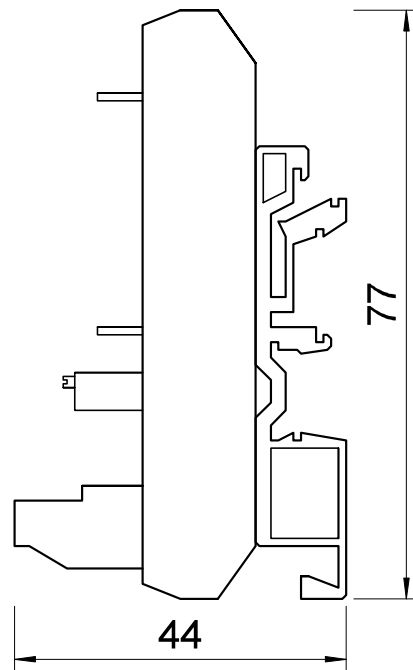
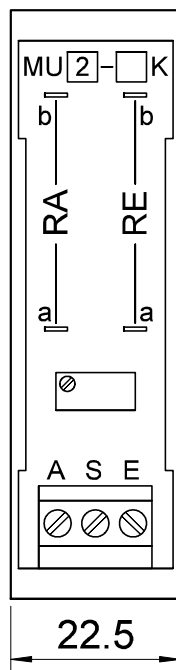
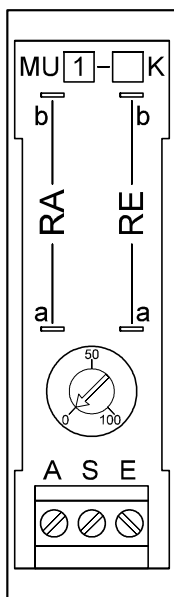
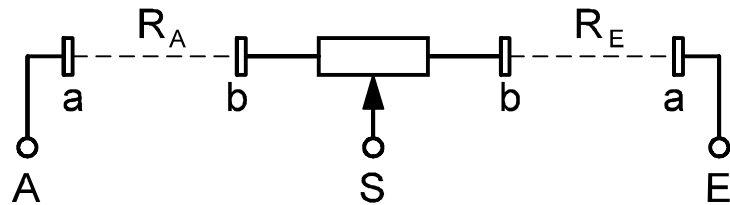
### Examples:

MU1-10	1-turn potentiometer with a 10KΩ potentiometer.
MU2-5	20-turn potentiometer with a 5KΩ potentiometer.

Available resistance values: (\*)

5	kΩ	standard
10	kΩ	
50	kΩ	

\* More resistance values on request



## Technical data:

### Potentiometer:

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	MU1	MU2
Resistor tolerance	: ±10%	±10%
Temperature coefficient	: 100ppm/K°	100ppm/K°
Resistor material	: Cermet	Cermet
Loading capacity	: 0,75W	0,5W
Slider current max.	: 100mA	50mA
Turns	: 1	20
Scale	: 0...100	-
Collector position	: Right stop to "E"	
Nominal voltage	: 48VAC / 60VDC	
	200V including series resistor with protection against contact	

### General data:

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Operating temperature	: 0...50°C
Storage temperature	: -25...+85°C, condensation before putting into operation is not allowed
MTBF	: 2900 years Mean Time Between Failures – according to EN 61709 (SN29500). Requirements: Stationary operation in clean rooms, average ambient temperature 40 °C, permanent operation without forced ventilation, continuous operation
CE conformity	: EN 61326-1, EN 61000-4-2/3*/4/5/6*, EN 61000-6-4 * during measurements small deviations are possible

### Body:

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Dimension	: 22,5x77x44mm
Material	: PA / V2
Protection category	: IP00
Connection	: 2,5mm screw-type terminal
Fixing	: Snap-on mounting for norm rail TS15, TS32 and TS35
Weight	: 30g
Mounting	: as you like, side by side

#### **Note on safety:**

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Disconnect the power supply before attempting to open the unit.

During the operation of this module it is possible that parts of the module, even there is extra-low voltage, (for example shunt measurement) are under dangerous voltage! Therefore a non-observance of this caution may cause damage of property or physical injury.

Only trained qualified personnel should install or operate the unit. Before installation the qualified personnel should read the documentation and should familiarize themselves with the unit.

If there is visible damage to the body of the unit it should be immediately replaced and not put into operation.



Please ensure that there is a sufficient prevention against electrostatic discharge during installation of the unit.

#### **Installation Information:**

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Pay attention and make sure the unit is far away from mounted sources that may disturb the device such as magnetic coils, transformers, frequency converters etc.

#### **Wiring advise:**

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Use only shielded cables. The shield is to be connected extensively to ground. Do not mix power- and signal-wires/cables in the same cable tray.

#### **Limited guarantee:**

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The LEG Industrie-Elektronik GmbH warranted that the product does not have any material or processing defects in a period of 5 years after date of delivery.

It is up to the choice of LEG to repair or to exchange an inoperative unit.

Subsequent damages or any claim for indemnification above the functionality of the unit are excluded.

This limited warranty is only valid if ...

1. the product was installed and put into operation according to the LEG operation documentation;
2. the technical configuration of the power supply was abided;
3. the product was not used for unintended purposes;
4. there were no unauthorized modifications or manipulations, misuse or repairs without previous agreement from LEG .

Our Terms of Trade are based on the "General Conditions for the supply of products and services of the Electrical and Electronics Industry" including the "Complementary Clause: Extended Reservation of Property" of the ZVEI e.V. (German Association of Electrical Manufacturers).

#### **Miscellaneous:**

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We expressly reserve the right, without previous notice, to correct errors contained in any data of this information brochure, and to make alterations to the program and technical modifications.