

Analog converter

MUIW 6.2 voltage-current
MIUW 6.2 current-voltage
MUW6.2 voltage-voltage
MIIW 6.2 current-current

Inputs and outputs galvanically isolated

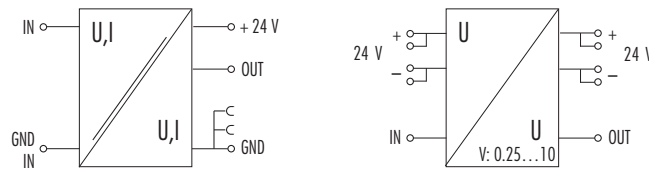
MU..W 6.2
 INPUT 0... 10 V DC
 with enhanced features



MI..W 6.2
 INPUT 0... 20 mA

MI..W 6.2
 INPUT 4... 20 mA

Circuit diagram



Art.-No. 44201
 no galvanic separation
 regular voltage amplification

Ordering data	Art.-No.	Art.-No.	Art.-No.
OUTPUT	spring clamp/screw terminals	spring clamp/screw terminals	spring clamp/screw terminals
0... 10 V DC/20 mA	6644205	6644212	6644213
0... 10 V DC/300 mA	* ¹⁾ 44201		
0... 20 mA	6644232	6644226	
4... 20 mA	6644233	6644228	

Technical data	
Supply voltage range	24 V DC ± 20 %, smoothed
Supply current	50... 70 mA
Input resistance; input voltage/current	approx. 200 kOhm; approx. 250 Ohm
Input frequency	max. 500 Hz
Output load	$R_L \geq 500 \text{ Ohm}$ for output voltage; $R_L \leq 500 \text{ Ohm}$ for current output
Output current	max. 20 mA
Tolerance	≤ 0.5 %
Test isolation voltage	1.5 kV ¹⁾ Art.-No. 44201 : without galvanic isolation
Temperature range	0... +60 °C
Mounting method	DIN-rail mounting to EN 60715
Dimension	90 x 6.2 x 65 mm ¹⁾ Art.-No. 44201 : 86 x 67.5 x 65 mm

Description	
The Murrelektronik analog coupler modules accept input signal formats of 0... 10 V, 0... 20 mA, 4... 20 mA. Due to an integrated current limiter on the output, the output is short-circuit and overload protected.	
Converter module MIIW - 0/4... 20 mA to 0/4... 20 mA - without auxiliary supply, Art.-No. 6644225 on request.	

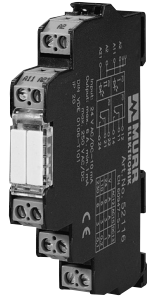
Notes	
For screw clamp connection, the item number changes from 6644... in 4... (i.e. the prefix 66 is dropped)	
* Product that should exclusively be used as insure by specialized company or personal.	

Analog converter

Inputs, outputs and input voltage galvanically isolated

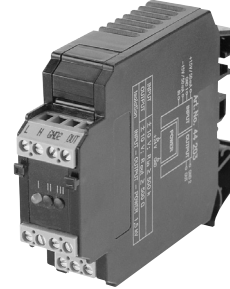
MULTIWANDLER 12.4

INPUT 0...5 V DC, 0...10 V DC, ± 10 V DC
INPUT 0...20 mA, 4...20 mA

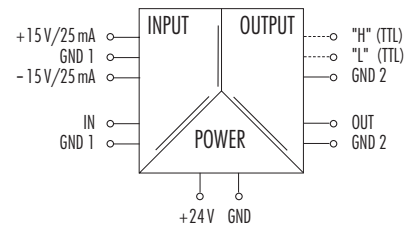
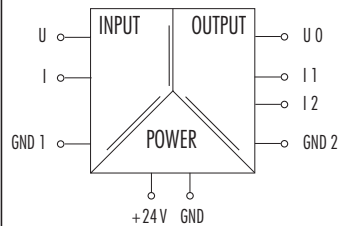


MUW

INPUT $\pm 0...10$ V DC



Circuit diagram



Ordering data		Art.-No.	Art.-No.
OUTPUT	spring clamp/screw terminals		
0...10 V DC/20 mA		6644207	44202
0...20 mA		6644207	
4...20 mA		6644207	
$\pm 0...10$ V DC			44203
Technical data			
Supply voltage range	24 V DC $\pm 15\%$		24 V DC + 15%/-10%
Supply current	approx. 50 mA		max. 200 mA
Input resistance	approx. 100 k-Ohm for input voltage; approx. 75 Ohm for current input		
Input frequency	max. 25 Hz		5 kHz, sine wave
Output load	$R_L \leq 400$ Ohm for current output		
Tolerance	$\leq 0.5\%$		$\pm 1\%$
Test isolation voltage	0.75 kV DC between input and output		1.5 kV
Temperature range	-25...+50 °C		0...+50 °C
Mounting method	DIN-rail mounting to EN 60715		
Dimension	H x W x D	90 x 12.4 x 65 mm	75 x 22.5 x 102 mm

Description

The Murrelektronik analog coupler converts standard signal formats (0...10 V, $\pm 0...20$ mA, 4...20 mA) galvanically isolated into these signals. Due to an integrated current limiter on the output, the output is short circuit and overload protected.

A special characteristic of the **MULTIWANDLER** Art.-No. **6644207** includes:

Analog voltage signal 0...5 V/0...10 V and -10...+10 V as well as current signal 0...20 mA and 4...20 mA, these compactable modules can be galvanically isolated in the three normal signals, which means all combinations will be covered with the model.

The choice of the input is done by means of a 5-pole rotary switch, accessible under the identification tag.

The voltage supply is galvanically isolated from the input and output circuits (3-way isolation).

Isolation prevents interference on the input from appearing at the output. Art.-Nos. 44202 and 44203 have 2 electrically isolated ± 15 V DC/25 mA supplies available. The "H" (+) and "L" (-) shown on the diagram are only on Art.-No. 44202 and give the input signals.

Notes

For screw clamp connection, the item number changes from 6644... in 4... (i.e. the prefix 66 is dropped)
Accessories in chapter 3.13