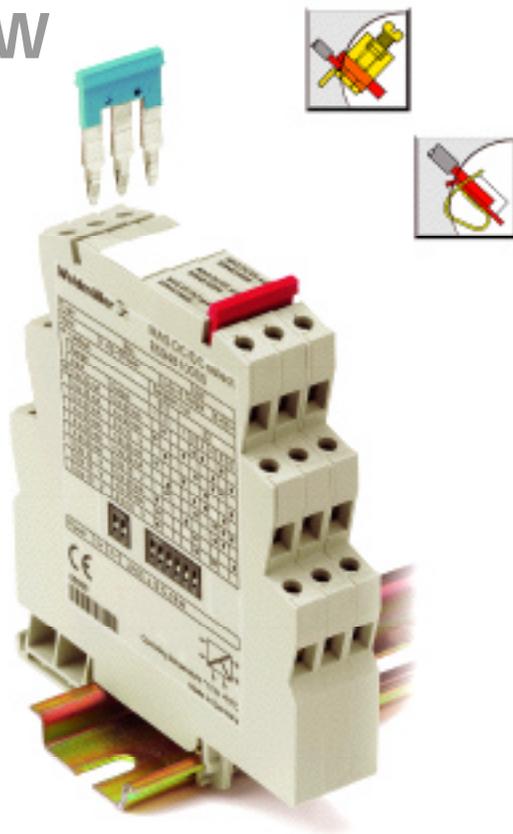


MICROANALOG Analog Signal Conditioners

MICROANALOG DC/DC select
MICROANALOG THERMO select
MICROANALOG PT100 select

NEW



MICROANALOG sets a new standard in signal conditioning and isolating. In a package with a thickness of only 6.1mm (0.24 in.) you'll find:

- Wide range of standard functions
- Easy installation
- 3-Way Isolation between Input, Output, and Supply voltage
- Closed housing
- DIP-Switch selectable
- Supply voltage cross-connectable
- Low Power Consumption

These features make MICROANALOG a space saving alternative for your signal conditioning applications.

3 modules with cross-connections for supply voltage

United States

Weidmüller Inc.
821 Southlake Blvd.
Richmond, Virginia 23236
Telephone: (800) 849-9343
Facsimile: (804) 379-2593
Email: info@weidmuller.com
Website: www.weidmuller.com

Canada

Weidmüller Ltd.
10 Spy Court
Markham, Ontario L3R-5H6
Telephone: (800) 268-4080
Facsimile: (905) 475-2798
Email: info1@weidmuller.ca
Website: www.weidmuller.ca

Mexico

Weidmüller, S.A. de C.V.
5 Sur No. 4311
Col. Huexotitla
72534 Puebla, Pue. Mexico
Telephone: (22) 37 2549
Facsimile: (22) 43 1981
Email: weidmull@acnet.net

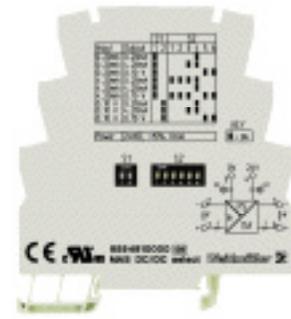
Weidmüller 

DC/DC-Signal Conditioner

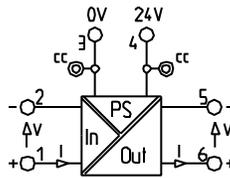
MICROANALOG DC/DC select

- 3-way Isolation between Input, Output, and Supply voltage
- DIP-Switch selectable
- Supply voltage cross-connectable
- Low heat dissipation

DC/DC select



Schematic circuit diagram

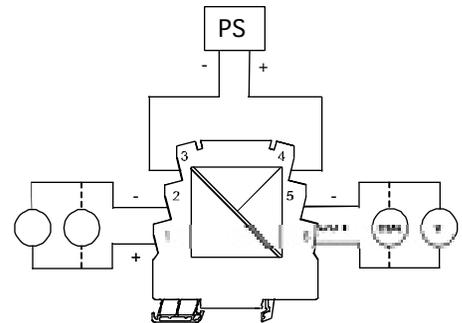


Switch positions / setting options

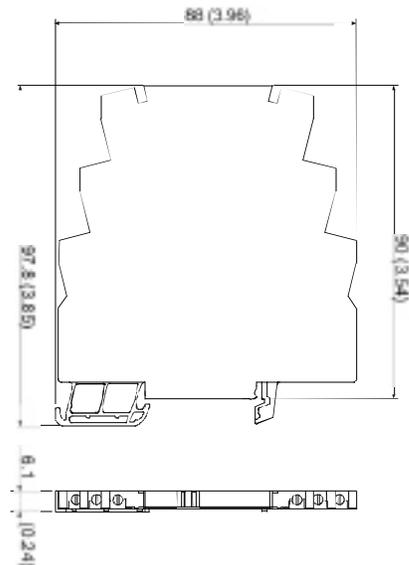
Input	Output	S1		S2					
		1	2	1	2	3	4	5	6
0...20mA	0...20mA	■	■						
0...20mA	4...20mA								
0...20mA	0...10 V								
4...20mA	0...20mA								
4...20mA	4...20mA								
4...20mA	0...10 V								
0...10 V	0...20mA								
0...10 V	4...20mA								
0...10 V	0...10 V								

KEY
■ = ON

Connection



Dimensions



Ordering data

Screw connection	MAZ DC/DC select	8594810000
Tension clamp connection	MAZ DC/DC select	8594840000

Type

MAZ DC/DC select	8594810000
MAZ DC/DC select	8594840000

Part No.

Technical data*

Input (selectable)	0...10 V / 4...20 mA / 0...20 mA (factory setting)
Input resistance	
Input resistance with current input	< 0.1 V @ 20 mA
Input resistance with voltage input	100 kOhm
Overload	
Input current	< 100 mA
Input voltage	max. 30 V, 3 mA
Output (selectable)	0...10 V / 4...20 mA / 0...20 mA (factory setting)
Load resistance	
Output resistance with current output	< 500 Ohm
Output resistance with voltage output	> 10 kOhm
Residual ripple	< 20 mV _{eff}
Accuracy	< 0.5 % from end value
Temperature coefficient	< 150 ppm/degree from end value
Cut-off frequency	> 100 Hz

General data

Supply voltage	24 Vdc (±15%)
Power consumption	approx. 0.6 W
Operating temperature	0...+55°C
Storage temperature	-25°C...+85°C
Approvals	CE UL
Dimensions L/H/W mm (in.)	88 / 98 / 6.1 (3.46 / 3.86 / 0.24)

Coordination of insulation acc. to DIN EN50178, 04/98

Rated voltage	50 V
Isolation voltage	500 V
Overvoltage category	II
Contamination class	2

Accessories

Type	Part No.
Cross-connection, 2-pole, Red	ZQV 4N/2 Red 1793950000
Cross-connection, 3-pole, Red	ZQV 4N/3 Red 1793980000
Cross-connection, 4-pole, Red	ZQV 4N/4 Red 1794010000
Cross-connection, 10-pole, Red	ZQV 4N/10 Red 1758260000
Cross-connection, 41-pole, Red	ZQV 4N/41 Red 1758270000
Cross-connection, 2-pole, Black	ZQV 4N/2 Black 1793970000
Cross-connection, 3-pole, Black	ZQV 4N/3 Black 1794000000
Cross-connection, 4-pole, Black	ZQV 4N/4 Black 1794030000
Cross-connection, 10-pole, Black	ZQV 4N/10 Black 1794060000
Cross-connection, 41-pole, Black	ZQV 4N/41 Black 1794090000

Marking tags	WS12/6	1061160000
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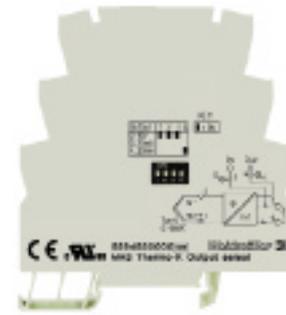
* at 20°C ambient temperature

Thermo-Signal Conditioner

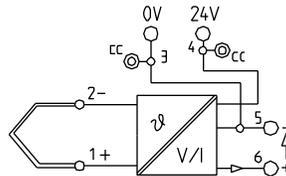
MICROANALOG Thermo Output select

- 2-way Isolation between Input and Output
- Cold junction compensation
- Linear Conversion
- Output DIP-switch selectable

Thermo-K Output select Thermo-J Output select



Schematic circuit diagram



Switch positions / setting options

Output	1	2	3	4
0...10V	■	■	■	
0...20mA				■
4...20mA				■

KEY
■ = ON

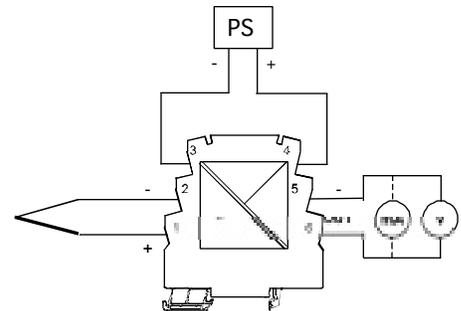
Ordering data

Screw connection	
Tension clamp connection	
Screw connection	
Tension clamp connection	

Type

Type	Part No.
MAS Thermo-K Output select	8594830000
MAZ Thermo-K Output select	8594860000
MAS Thermo-J Output select	8615210000
MAZ Thermo-J Output select	8615240000

Connection



Technical data*

Input (fixed)	Thermocouple Type Typ K, 0...1000 °C Thermocouple Type Typ J, 0...700 °C
Output (selectable)	0...10V / 4...20mA / 0...20mA (factory setting)
Load resistance	< 300 Ohm @ V _G = 24 Vdc > 10 kOhm
Output current	
Output voltage	
Residual ripple	< 20m V _{eff}
Accuracy	+3 K / + 0.3 % of selected range +3 K / + 0.3 % of selected range
Thermocouple Typ K, 0...1000 °C	
Thermocouple Typ J, 0...700 °C	
Temperature coefficient	< 250 ppm/K from full scale value
Response time	approx. 1 sec.

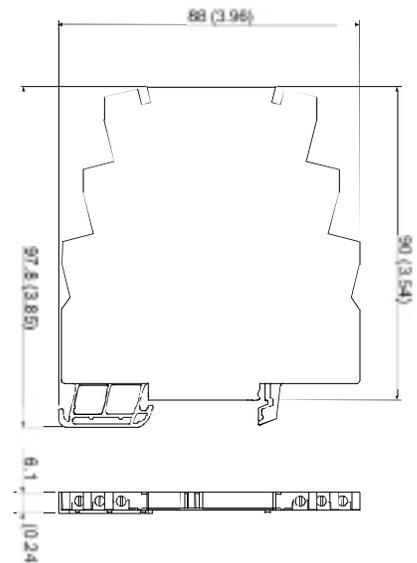
Thermocouple Type Typ K, 0...1000 °C	
Thermocouple Type Typ J, 0...700 °C	
0...10V / 4...20mA / 0...20mA (factory setting)	
< 300 Ohm @ V _G = 24 Vdc	
> 10 kOhm	
< 20m V _{eff}	
+3 K / + 0.3 % of selected range	
+3 K / + 0.3 % of selected range	
< 250 ppm/K from full scale value	
approx. 1 sec.	

General data

Supply voltage	24 Vdc (±10%)
Power consumption	approx. 0.6 W
Operating temperature	0...+55°C
Storage temperature	-25°C...+85°C
Approvals	CE UL
Dimensions L/H/W mm (in.)	88 / 98 / 6.1 (3.46 / 3.86 / 0.24)

24 Vdc (±10%)	
approx. 0.6 W	
0...+55°C	
-25°C...+85°C	
CE UL	
88 / 98 / 6.1 (3.46 / 3.86 / 0.24)	

Dimensions



Coordination of insulation acc. to DIN EN50178, 04/98

Rated voltage	50 V
Rated surge voltage	500 V
Overvoltage category	II
Contamination class	2

50 V	
500 V	
II	
2	

Accessories

Cross-connection, 2-pole, Red	
Cross-connection, 3-pole, Red	
Cross-connection, 4-pole, Red	
Cross-connection, 10-pole, Red	
Cross-connection, 41-pole, Red	
Cross-connection, 2-pole, Black	
Cross-connection, 3-pole, Black	
Cross-connection, 4-pole, Black	
Cross-connection, 10-pole, Black	
Cross-connection, 41-pole, Black	

Type	Part No.
ZQV 4N/2 Red	1793950000
ZQV 4N/3 Red	1793980000
ZQV 4N/4 Red	1794010000
ZQV 4N/10 Red	1758260000
ZQV 4N/41 Red	1758270000
ZQV 4N/2 Black	1793970000
ZQV 4N/3 Black	1794000000
ZQV 4N/4 Black	1794030000
ZQV 4N/10 Black	1794060000
ZQV 4N/41 Black	1794090000

Marking tags

* at 20°C ambient temperature

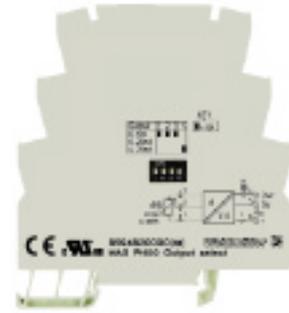
WS12/6	1061160000
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PT100-Signal Conditioners

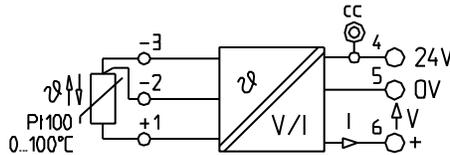
MICROANALOG PT100 Output select

- 2-way Isolation between Input and Output
- PT100 2-/3-wire
- Output DIP-switch selectable

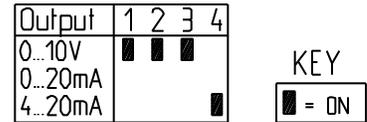
PT100 Output select



Schematic circuit diagram



Switch positions / setting options



Ordering data

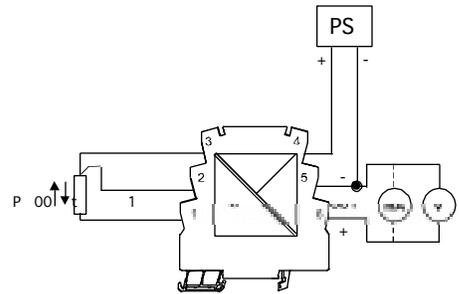
Screw connection	
Tension clamp connection	

Type

MAS PT100 Output select	8594820000
MAZ PT100 Output select	8594850000

Part No.

Connection



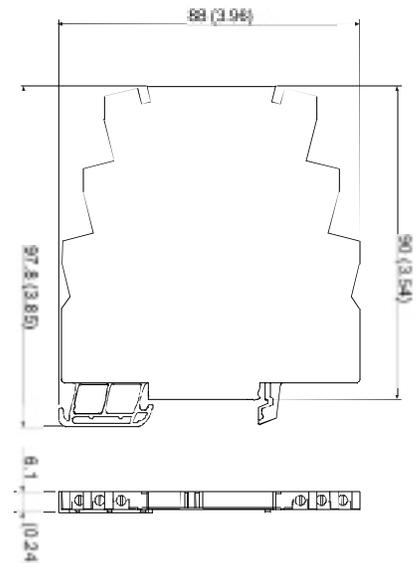
Technical data*

Input (fixed)	PT 100 2-/3-Wire (2-Wire-Connection by jumpering pins 2 and 3)
Temperature range	0...100 °C
Input current	0.8 mA
Output (selectable)	0...10 V / 4...20 mA / 0...20mA (factory setting)
Load resistance	< 300 Ohm @ V _G = 24 Vdc > 10 kOhm
Output current	< 0.5 % from end value
Output voltage	< 250 ppm/K from full scale value
Accuracy	approx. 1 sec.
Temperature coefficient	
Response time	

General data

Supply voltage	24 Vdc (±10%)
Power consumption	approx. 0.6 W
Operating temperature	0...+55 °C
Storage temperature	-25 °C...+85 °C
Approvals	CE

Dimensions



Dimensions L/H/W mm (in.)

88 / 98 / 6.1 (3.46 / 3.86 / 0.24)

Coordination of insulation acc. to DIN EN50178, 04/98

Rated voltage	50 V
Rated surge voltage	500 V
Overtoltage category	II
Contamination class	2

Accessories

Type	Part No.
Cross-connection, 2-pole, Red	ZQV 4N/2 Red 1793950000
Cross-connection, 3-pole, Red	ZQV 4N/3 Red 1793980000
Cross-connection, 4-pole, Red	ZQV 4N/4 Red 1794010000
Cross-connection, 10-pole, Red	ZQV 4N/10 Red 1758260000
Cross-connection, 41-pole, Red	ZQV 4N/41 Red 1758270000
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Cross-connection, 3-pole, Black	ZQV 4N/3 Black 1794000000
Cross-connection, 4-pole, Black	ZQV 4N/4 Black 1794030000
Cross-connection, 10-pole, Black	ZQV 4N/10 Black 1794060000
Cross-connection, 41-pole, Black	ZQV 4N/41 Black 1794090000

Marking tags

WS12/6	1061160000
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* at 20°C ambient temperature