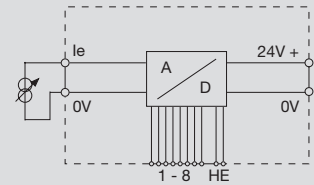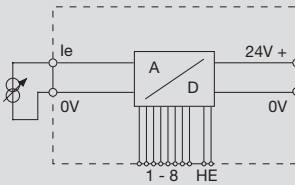# RS-SERIES - AD/DA converter

D

AD converter, 8-bit

- Hold function for storing the current bit combination
- More information and table for input/output characteristics of A/D, D/A converters available at www.weidmueller.de => downloads

	RS I-D8 0…20 mA	**RS I-D8 4…20 mA**

Technical data

	RS I-D8 0…20 mA	RS I-D8 4…20 mA
Input		
Input voltage/Input current	/0…20 mA	/4…20 mA
max. voltage/max. current	3.5 V /25 mA	3.5 V /25 mA
Input resistance, voltage/Current	50 kΩ per input /	/≥ 51 Ω
Output		
Number of outputs	8 Bit (1-bit sign)	8 Bit (1-bit sign)
Output level	17 V = H, 0 V = L	17 V = H, 0 V = L
Signs		
Output current	≤ 25 mA (as source)	≤ 25 mA (as source)
Accuracy	± 1 LSB	± 1 LSB
Cut-off frequency (-3dB)	5 kHz at full scale (sinus)	5 kHz at full scale (sinus)
Conversion time	≤ 4 µs	≤ 4 µs
General data		
Supply voltage	24 V DC ± 20 %	24 V DC ± 20 %
Current consumption	35 mA (plus output current)	35 mA (plus output current)
Operating temperature	0 °C…+50 °C	0 °C…+50 °C
Storage temperature	-40 °C…+80 °C	-40 °C…+80 °C
Approvals	CE;	CE;
Insulation coordination		
Standards	EN 50178	EN 50178
EMC standards	EN 61000-6	EN 61000-6

Dimensions		**Screw connection**	**Screw connection**
Clamping range (rating- / min. / max.)	mm²	4 / 0.5 / 4	4 / 0.5 / 4
Length x width x height	mm	70 x 35 x 72	70 x 35 x 72
Note			

Ordering data

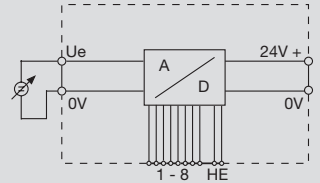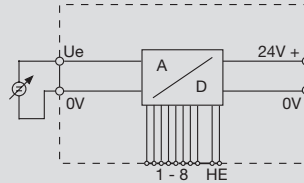| Type of connection		Type	Qty.	Order No.	Type	Qty.	Order No.
	Screw connection	RS I-D8 0…20MA	1	**1160561001**	RS I-D8 4…20MA	1	**1168561001**
Note							

Accessories

Note			

AD converter, 8-bit

- Hold function for storing the current bit combination
- More information and table for input/output characteristics of A/D, D/A converters available at www.weidmueller.de => downloads

RS U-D8 +/-10 V

RS U-D8 0...10 V

Technical data

	RS U-D8 +/-10 V	RS U-D8 0...10 V
Input		
Input voltage/Input current	-10…+10 V /	0…10 V /
max. voltage/max. current	/≤ 55 µA	/≤ 25 µA
Input resistance, voltage/Current	≥ 200 kΩ /	≥ 400 kΩ /
Output		
Number of outputs	8 Bit (1-bit sign)	8 Bit (1-bit sign)
Output level	17 V = H, 0 V = L	17 V = H, 0 V = L
Signs	MSB: H = positive; L = negative	
Output current	≤ 25 mA (as source)	≤ 25 mA (as source)
Accuracy	± 1 LSB	± 1 LSB
Cut-off frequency (-3dB)	5 kHz at full scale (sinus)	5 kHz at full scale (sinus)
Conversion time	≤ 4 µs	≤ 4 µs
General data		
Supply voltage	24 V DC ± 20 %	24 V DC ± 20 %
Current consumption	35 mA (plus output current)	35 mA (plus output current)
Operating temperature	0 °C…+50 °C	0 °C…+50 °C
Storage temperature	-40 °C…+80 °C	-40 °C…+80 °C
Approvals	CE;	CE;
Insulation coordination		
Standards	EN 50178	EN 50178
EMC standards	EN 61000-6	EN 61000-6

Dimensions		**Screw connection**	**Screw connection**
Clamping range (rating- / min. / max.)	mm²	4 / 0.5 / 4	4 / 0.5 / 4
Length x width x height	mm	70 x 35 x 72	70 x 35 x 72
Note			

Ordering data

Type of connection	Type	Qty.	Order No.	Type	Qty.	Order No.
Screw connection	RS U-D8 +-10V	1	**1122361001**	RS U-D8 0...10V	1	**1160361001**
Note						

Accessories

Note