

## 8-Bit Analog/Digital Converters

**RS/U-D8**



### Hold function (H):

The converter can, for example, by means of the hold function (H) be matched to the cycle time of a PLC. Holding and release of the conversion. The Hold input (H) is internally connected to 0 V via a resistor. In order to store the last signal, the Hold input (H) must be supplied with 24 V.

### Enable function (E):

The Enable circuit (E) allows several converters, e.g. on an input card of a PLC, to be switched on. The Enable input (E) is connected internally to 0 V via a resistor. In order to make the connection to the PLC, one converter must be disconnected. The other converters are supplied with 24 V (at least 12 V). This causes the converters at the output to be highly resistive.

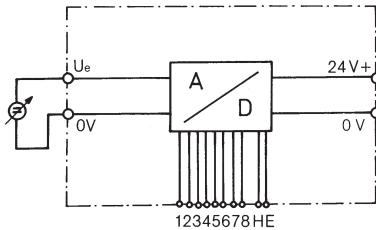
**RS/I-D 8**



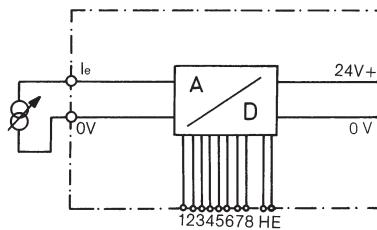
**Functions table (example)**

Terminal								Digital value/ Analog voltage value	Analog voltage Analog voltage
PIN									
MSB								LSB	
E8	E7	E6	E5	E4	E3	E2	E1		
0	0	0	0	0	0	0	0	0	0 V
0	0	0	0	0	0	0	0	1	
0	0	0	0	0	0	0	1	0	
0	0	0	0	0	0	1	1	1	
-	-	-	-	-	-	-	-	-	
1	1	1	1	1	1	1	0	1	
1	1	1	1	1	1	1	1	0	
1	1	1	1	1	1	1	1	1	+10 V

**Block diagram**



**Block diagram**



**Ordering data**

Type	Part No.						
RS/U-D 8	1122361001	RS/U-D 8	1160361001	RS/I-D 8	1160561001	RS/I-D 8	1168561001

**Technical data**

#### Input signal

Max. input voltage

Max. input current

Input resistance

Max. limit frequency

Resolution

#### Output signal

Output current

Output level

Prefix

Transmission error

Conversion time

Supply

Connection arrangement

**-10 V...+10 V**

**0...10 V**

**0...20 mA**

**4...20 mA**

**8 Bit (1 Bit prefix)**

≤ 25 mA (as source)

approx. 17 V △ H, 0 V △ L

MSB: H c positive, L c negative

±1 LSB

≤ 4 µs

24 V-, ±20%, 35 mA

(plus output current)

Terminal 1 LSB

⋮

Terminal 8 MSB

Terminal 9 Enable<sup>2)</sup>

Terminal 10 Hold

Hold function:

High △ +24 V △ storage of last converted value

Low △ 0 V △ free conversion

-40°C...+85°C

0°C...+50°C

-40°C...+85°C

0°C...+50°C

-40°C...+85°C

0°C...+50°C

<sup>1)</sup> 1 LSB-Accuracy

<sup>2)</sup> Enable: 24 V = tristate

0 V = free conversion