

# analog output 4200

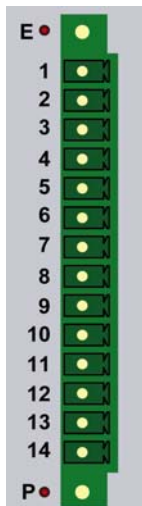


- 16 bit analog output
- $\pm 10V$
- 2 channels, simultaneous converting
- galvanically isolated

I/O

## Pinout

LED:	0; (8)	Ch 0: positive output voltage
	1; (9)	Ch 1: positive output voltage
	4; (12)	Ch 0: negative output voltage
	5; (13)	Ch 1: negative output voltage
	E:	failure, red
	P:	power supply, red



Pin	Signal
1	Ch0
2	AGND
3	Ch1
4	AGND
5	reserved
6	reserved
7	reserved
8	reserved
9	reserved
10	reserved
11	Power +24V= *)
12	Power 0V *)
13	Power +24V=
14	Power 0V

All Power +24V= and Power 0V are internal connected  
 \*) 9/2002 and later

## Attributes

**Dataformat:**  
 Standard integer (16-Bit) format :  
 +32767 = +10V  
 0 = 0V  
 -32768 = -10V

**Applications:**  
 16 bit analog output, voltage output  
 available prints :  
 • @P4200L: 2 channels, 16 bit analog output,  $\pm 10V$   
 • @P4200R: 2 channels, 16 bit analog output,  $\pm 10V$

**Related Applications:**  
 4 channels, voltage output  
 • @P4400: 4 channels, 16 bit analog output,  $\pm 10V$   
 2/4 channels, current output  
 • @P4210: 2 channels, 16 bit current output  $\pm 20mA$   
 • @P4410: 4 channels, 16 bit current output  $\pm 20mA$

analog

output

## Electrical Data

Power supply external.....	24V= $\pm 20\%$
Supply Current .....	30mA at 24V
Operating current @ctiveBus.....	15mA at 3,3V / 0mA at 5V
Input protection .....	30V overvoltage, surge
Differential input voltage .....	60V, maximum
Maximum converting frequency .....	40 kHz
Resolution / Accuracy .....	16 bit / 13 bit
No. of converters.....	2, simultaneous converting, no multiplexers

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### System Information

System ID .....0x0181  
 System address space .....32 bit in, 32 Bit out (2x2 Byte)

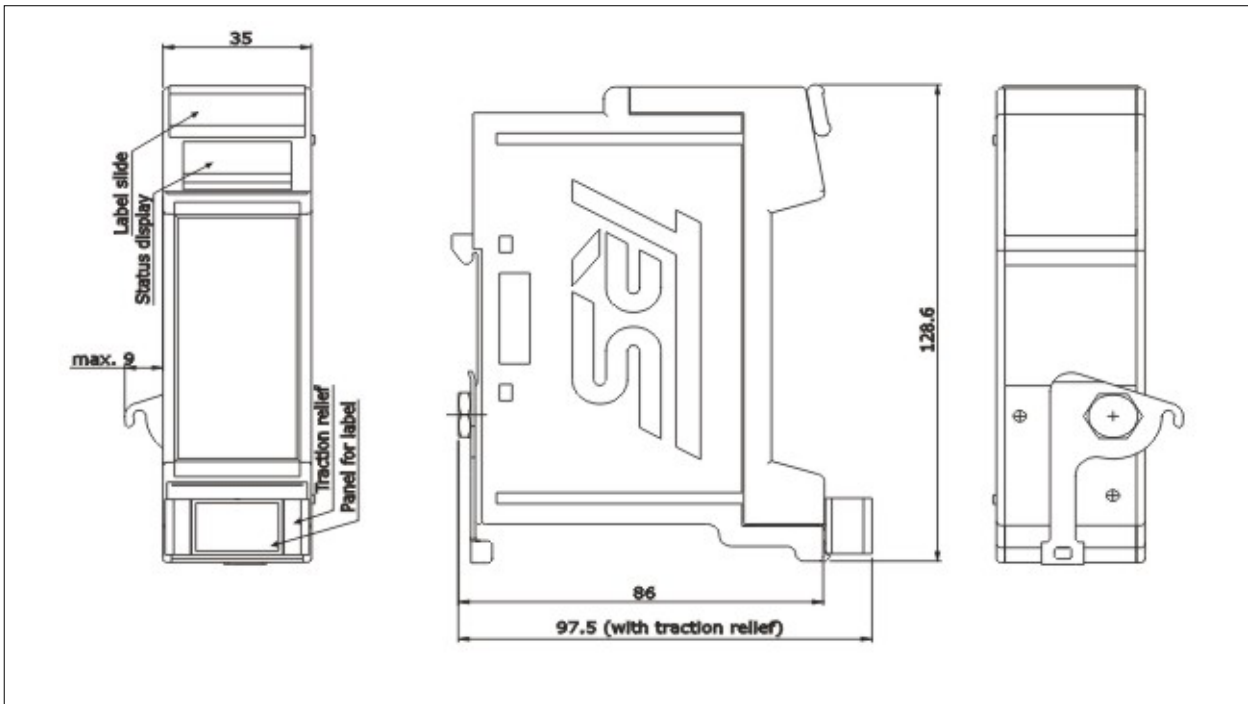
### Environmental Conditions

Electromagnetic compatibility (EMC) .....EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)  
 Operating temperature [°C] .....0 ..+55  
 Storage temperature [°C] .....-20 .. +70  
 Humidity (rel) .....98 % (non condensing)  
 Protection class\* .....IP 20 (DIN 40 050)  
 \*The protection class is valid only with housing and connector installed

### Mechanical Data PCB

Weight .....approx. 0.05 kg including connector  
 Dimension .....105mm x 80mm x 12mm

### Drawing (effective if mounted in @M housing)



### Ordering Key

@	P	4	2	0	0	L	-					R
						L= left slot						R= right slot
						0= standard		Description if installed in the right slot.				
						0= voltage output						
						2= 2 channels						
						4= analog output						
	P= print only X= print and cap M= print and housing											

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Revision change

Version	Description	Date (m/y)
00	serie 0	09/02
01	added: operating current in Electrical Data	09/03

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