

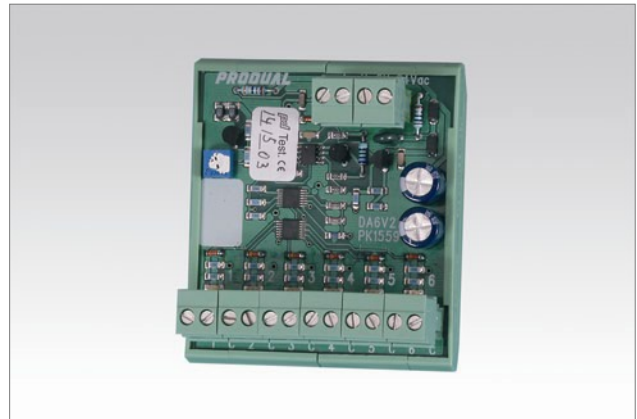
## DA 6 DI/AO CONVERTER

DA 6 is a DI/AO converter, which enables totally 6 digital inputs (contacts) to be monitored via one analog input of the control system. DA 6 can be used to add digital inputs when there is a free analog input and the required software available in the system.

Each digital input is generating a different signal summed up with the other signals. The lowest step (DI1) is about 160 mV / 0,254 mA and the highest (DI6) is about 5,08V / 12,13mA. As each summed up signal is different the state of each input can always be monitored. Wiring is to be made by a 3-wire system. Illuminating led lamps are indicating ON-state inputs.

Outputs resulting from the different input state (ON/OFF = 1/0) combinations:

DI1	DI2	DI3	DI4	DI5	DI6	U Output V	I Output mA
0	0	0	0	0	0	0,00	4,000
1	0	0	0	0	0	0,16	4,254
0	1	0	0	0	0	0,32	4,508
1	1	0	0	0	0	0,48	4,762
0	0	1	0	0	0	0,64	5,016
1	0	1	0	0	0	0,79	5,270
0	1	1	0	0	0	0,95	5,524
1	1	1	0	0	0	1,11	5,778
0	0	0	1	0	0	1,27	6,032
1	0	0	1	0	0	1,43	6,286
0	1	0	1	0	0	1,59	6,540
1	1	0	1	0	0	1,75	6,794
0	0	1	1	0	0	1,91	7,048
1	0	1	1	0	0	2,06	7,302
0	1	1	1	0	0	2,22	7,556
1	1	1	1	0	0	2,38	7,810
0	0	0	0	1	0	2,54	8,064
1	0	0	0	1	0	2,70	8,318
0	1	0	0	1	0	2,86	8,572
1	1	0	0	1	0	3,02	8,826
0	0	1	0	1	0	3,18	9,080
1	0	1	0	1	0	3,33	9,334
0	1	1	0	1	0	3,49	9,588
1	1	1	0	1	0	3,65	9,842
0	0	0	1	1	0	3,81	10,096
1	0	0	1	1	0	3,97	10,350
0	1	0	1	1	0	4,13	10,604
1	1	0	1	1	0	4,29	10,858
0	0	1	1	1	0	4,45	11,112
1	0	1	1	1	0	4,60	11,366
0	1	1	1	1	0	4,76	11,620
1	1	1	1	1	0	4,92	11,874
0	0	0	0	0	1	5,08	12,128
1	0	0	0	0	1	5,24	12,382
0	1	0	0	0	1	5,40	12,636
1	1	0	0	0	1	5,56	12,890
0	0	1	0	0	1	5,72	13,144
1	0	1	0	0	1	5,87	13,398
0	1	1	0	0	1	6,03	13,652
1	1	1	0	0	1	6,19	13,906
0	0	0	1	0	1	6,35	14,160
1	0	0	1	0	1	6,51	14,414
0	1	0	1	0	1	6,67	14,668
1	1	0	1	0	1	6,83	14,922
0	0	1	1	0	1	6,99	15,176
1	0	1	1	0	1	7,14	15,430
0	1	1	1	0	1	7,30	15,684
1	1	1	1	0	1	7,46	15,938
0	0	0	0	1	1	7,62	16,192
1	0	0	0	1	1	7,78	16,446
0	1	0	0	1	1	7,94	16,700
1	1	0	0	1	1	8,10	16,954
0	0	1	0	1	1	8,26	17,208
1	0	1	0	1	1	8,41	17,462
0	1	1	0	1	1	8,57	17,716
1	1	1	0	1	1	8,73	17,970
0	0	0	1	1	1	8,89	18,224
1	0	0	1	1	1	9,05	18,478
0	1	0	1	1	1	9,21	18,732
1	1	0	1	1	1	9,37	18,986
0	0	1	1	1	1	9,53	19,240
1	0	1	1	1	1	9,68	19,494
0	1	1	1	1	1	9,84	19,748
1	1	1	1	1	1	10,00	20,002



### Technical data:

Supply	24 Vac (22...28Vac), 1 VA
Inputs	potential-free contacts, line resistance <10 kΩ
Outputs	0...10 V, < 2 mA 4...20 mA, < 500 ohm
Dimensions (w x h x d)	67,5 x 77 x 42 mm
Mounting	on the 35 mm Din rail

### Wiring:

24 Vac	supply	24 Vac
0 V	supply	0 V
U	output	0...10 Vdc
I	output	4...20 mA
1	input	DI1
C	common	
2	input	DI2
C	common	
3	input	DI3
C	common	
4	input	DI4
C	common	
5	input	DI5
C	common	
6	input	DI6
C	common	

### Ordering guide:

Model	Product number	Description
DA 6	1182040	DI /AO converter

Products fulfill the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).

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