

## PERIPHERAL PORT EXPANDER:



### Hardware&port specifications

#### PPE

Measurement	up to 8 analog channels
Measurement range	0.05 to +4V vs. AGND
Input impedance	1 MOhm
power requirements	powered via potentiostat peripheral port, no separate power needed
Interfacing	DB37 data cable
Size	w x d x h = 12 x 26 x 2.5 cm
Weight	0.6 kg
Use	only i.c.w. Ivium potentiostats

#### Peripheral port specifications

pin	function	Signal range	remarks
1	+5V		max 100mA, not to be used in usb-powered mode
2	dig-in-1	0 to +5V	
3	dig-out-2	0 to +3.3V	
4	busy	0 to +5V	reserved for Ivium
5	com-RxD	RS2322C	reserved for Ivium
6	dgnd		
7	an-out-1	0 to+4.096V	
8	ac-out	-1 to +1 V	
9	an-in	-4 to +4V	
10	pga-in-X	-4 to +4V	
11	pga-in-Y	-4 to +4V	
12	an-in-1	0.05 to +4V	1MOhm impedance
13	an-in-3	0.05 to +4V	1MOhm impedance
14	an-in-5	0.05 to +4V	1MOhm impedance
15	an-in-7	0.05 to +4V	1MOhm impedance
16	an-in-2	0.05 to +4V	1MOhm impedance
17	an-in-4	0.05 to +4V	1MOhm impedance
18	an-in-6	0.05 to +4V	1MOhm impedance
19	an-in-8	0.05 to +4V	1MOhm impedance
20	dig-in-2	0 to +5V	
21	dig-out-1	0 to +3.3V	
22	dig-out-3	0 to +3.3V	
23	com-TxD	RS2322C	reserved for Ivium
24	dgnd		
25	agnd		
26	an-out-2	0 to+4.096V	
27to35	agnd		
36	I-out	-4 to +4V	1 V = 1 x Current Range (inverted potential)
37	E-out	-10 to +10V	limited by device compliance (inverted potential)