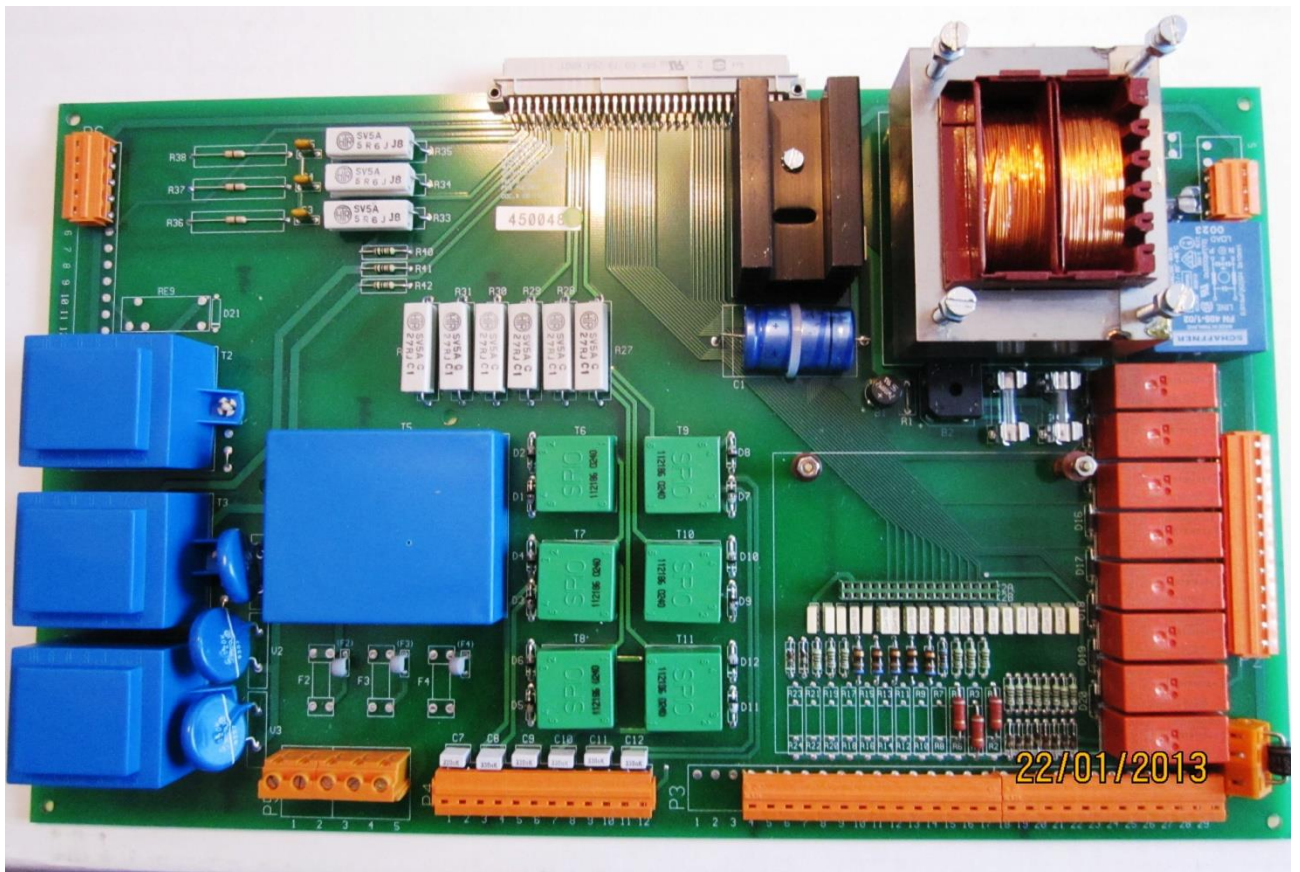




## Product information

### PWC30

#### Power Board for WMC systems



PWC30 Power Board

## Hardware description

The PWC30 board is a multi function board with power supply's, I/O's, thyristor control, and expansion possibilities. It is customized (configured) at the factory.

## Technical data

General	Data	Remarks
Product name	PWC30 X-Y	X and Y are models
Description	Power Board	
Product version	3	
<b>Power supply</b>		
	Terminal P1	
Input voltage	230V AC	
Max current (fuse F5)	1 Amp	
<b>Digital Input</b>		
	Terminal P3	
Digital input	15	
Type	24 V DC	Pull up/pull down resistors option
<b>Analogue Input</b>		
	Terminal P3	
Analogue Input	4	Temperatures
Type	PT100	4 PT100 in cluster
<b>Digital Output</b>		
	Terminal P2	
Relay output	8	Normally Open
Max Voltage	230 V AC	
Max switching current / output	1 Amp	
<b>Thyristor Control Output</b>		
	Terminal P4	
6 Thyristor control output	NO	
Voltage max	690 V AC	
<b>Voltage measurement</b>		
	Terminal P5	
Voltage (phase – phase) Max	690V AC	690/400/230/110 Configured at factory
Need for neutral line	NO	
<b>Expansion capabilities</b>		
	PT100X	Ad-on board for pressure and temperatures
Additional Temperatures	4	PT100 in serial cluster
Additional Analogue inputs	4	
<b>Mounting</b>		
Housing	Plate	
Length x Width x Height mm	300 X 250 X 25	
Weight	525 gram	Including mounting plate
Mounting method	Screw	

# PWC30 Configuration sheet

## Internal power supply

- Standard: 24V DC supply (no1)
- Option A1: 24V DC supply (no2) (see below for relay and output configuration)
- Option A2: No 24V DC supply (no2), Relay 1-3 com feed from P2-9.
- Option B: 24V AC supply (no3) to P1-4,5

## Relay pin configuration / setup

<b>Relay 1</b>	<u>A1: With 24V DC (no2)</u>	<u>A2: No 24V DC (no2)</u>
<input type="checkbox"/> Com to:	P2-11	N/A
<input type="checkbox"/> Com to:	+24V DC supply (no2)	P2-9
<input type="checkbox"/> Com to:	+24V DC supply (no2) and P2-11	P2-9 and P2-11
<b>Relay 2</b>	<u>A1: With 24V DC (no2)</u>	<u>A2: No 24V DC (no2)</u>
<input checked="" type="checkbox"/> Com to:	+24V DC supply (no2)	P2-9
<b>Relay 3</b>	<u>A1: With 24V DC (no2)</u>	<u>A2: No 24V DC (no2)</u>
<input type="checkbox"/> Com to:	+24V DC supply (no2)	P2-9
<input type="checkbox"/> Com to:	P2-7	P2-7
<input type="checkbox"/> Com to:	+24V supply (no2) and P2-7	P2-7 and P2-9

## Relay 9

- Option: Relay 9 installed

## Voltage measurement configuration

### Overload protection (one selection)

- Fuse (2,0 Amp)                       PTC

### Voltage measurement selection (phase-phase) on terminal P5 (one selection)

- 230V AC (130V Phase –Neutral)
- 400V AC (230V Phase –Neutral)
- 690V AC (400V Phase –Neutral)

## Current measurement configuration

### Current transformers output (max current) (one selection)

- 1,0 A                       0,6 A                       0,5 A
- 0,4 A                       0,1 A

## Digital Input configuration

When using sensors with "transistor" outputs pull-up/down resistor must be installed.

P3 Pin	Pull up	Pull down	Note
6	<input type="checkbox"/> R24	<input type="checkbox"/> R23	
7	<input type="checkbox"/> R22	<input type="checkbox"/> R21	Normally wind direction bit 1
8	<input type="checkbox"/> R20	<input type="checkbox"/> R19	Normally wind direction bit 2
14	<input type="checkbox"/> R12	<input type="checkbox"/> R11	
15	<input type="checkbox"/> R10	<input type="checkbox"/> R 9	
16	<input type="checkbox"/> R 8	<input type="checkbox"/> R 7	
17	<input type="checkbox"/> R 6	<input type="checkbox"/> R 5	Normally speed sensor (pull-up)
18	<input type="checkbox"/> R 4	<input type="checkbox"/> R 3	Normally wind speed (pull-down)
19	<input type="checkbox"/> R 2	<input type="checkbox"/> R 1	Normally speed sensor (pull-up)