



WZMACZNIACZE PRĄDU DO ZAWORÓW

PROPORTIONAL AMPLIFIER (General type)

Ordering Code: **PCB-2600**

Dimensions: 55.5 mm (width), 70 mm (height), 35 mm (terminal width).

Internal components: I max, I min, Ramp, Fuse 2.5 A, LED +VS, LED1, Jumper (85 Hz, 300 Hz, 140 Hz), Screw-terminal (pins 1-6).

UNIT:mm

VERY IMPORTANT

Do not remove the amplifier from the coil while the power is on. This will cause a failure in the internal circuits of the amplifier, resulting in loss of output to the coil.

INSTRUCTIONS FOR SETTING

SUPPLY Green LED

RAMP Ramping up/down time adjustment. For long ramping times, turn potentiometers clockwise, for short ramping times, turn potentiometers counter-clockwise.

MAX/MIN I max / I min
There are multi-course potentiometers for adjustment of min-max and also ramp time.

FREQUENCY ADJ.
The dither frequency can be set with a Jumper to 85, 140, or 300 Hz.

TECHNICAL DATA

Supply Voltage:	10-35	VDC
Max. Current:	0-2600 mA adjustable for 12 and 24 VDC	(Output is a PWM-DC)
Min. Current:	0-600 mA adjustable	
Ramp Adjustment:	0~5	Sec.
Dither Frequency:	85, 140, 300 Hz to be set by jumper	(Standard 85 Hz)
Ambient Operating temperature	14~140 °F	-10~60 °C
Weight:	0.05	kg

Connections

External Voltage Control

Pin 1: +UB (0-10 V)
Pin 2: +Sig (0-5 V)
Pin 3: -GND

Potentiometer Control

Pin 1: +UB
Pin 2: +5V
Pin 3: 5...10 kΩ
Pin 4: -GND

External Current Control

Pin 1: +UB
Pin 2: +Sig (0-20 mA)
Pin 3: -GND

Two Point Control

Pin 1: +UB
Pin 2: +5V
Pin 3: -GND

Proportional -Solenoid connections for all diagrams.

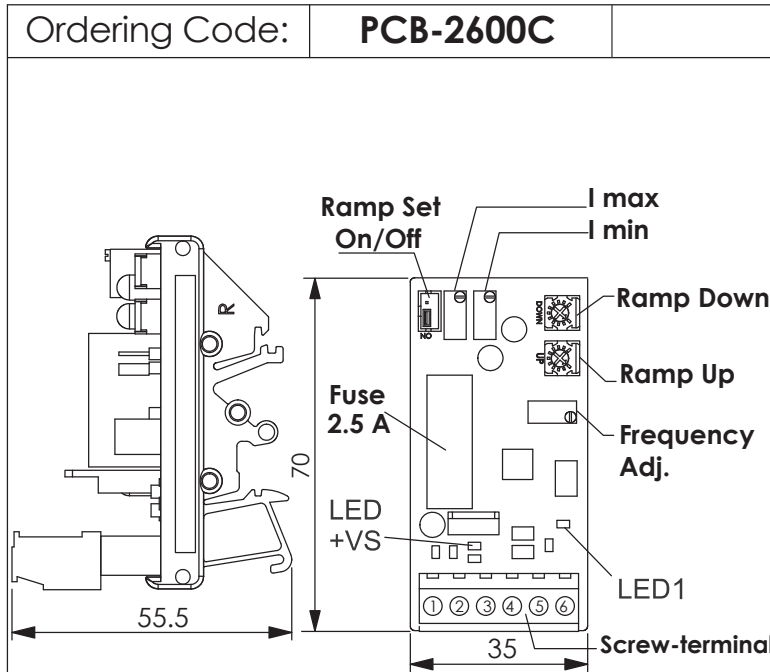
. Clamp Connections plug in connector
Pin 1 = + UB; Supply voltage (10-35 VDC)
Pin 2 = control voltage (+ Sig)
Pin 3 = Auxiliary voltage (+ 5 VDC)
Pin 4 = Ground (GND)
Pin 5 = Solenoid (-)
Pin 6 = Solenoid (+)

. Potentiometer
Turn clockwise means increasing current or Extension of ramp time
App. 10 turns for complete range

. Fuse
Standard 20 mm Glass fuse 2.5 A T

. LED's
LED +VS (green) = lights, when voltage supply and fuse are in order
LED1 (red) = lights, if there is an output to the solenoid

PROPORTIONAL AMPLIFIER (Fully Adjustable)



UNIT:mm

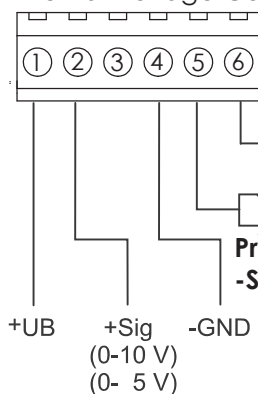
VERY IMPORTANT

Do not remove the amplifier from the coil while the power is on.
This will cause a failure in the internal circuits of the amplifier, resulting in loss of output to the coil.

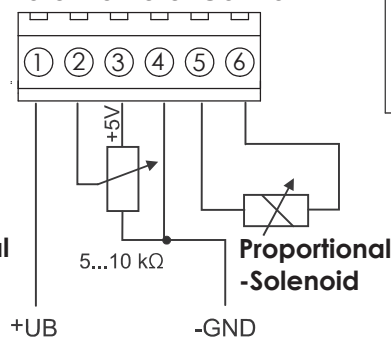
While adjusting RAMP after adjusting I MAX will cause the Max current bigger or smaller.
Hence we suggest first to adjust RAMP, then to adjust I max.

Connections

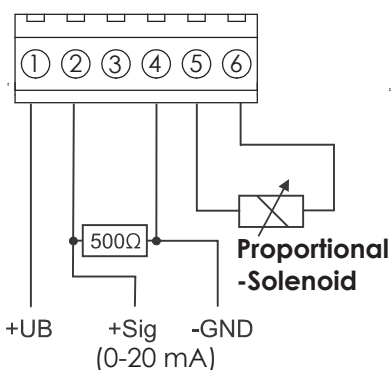
External Voltage Control



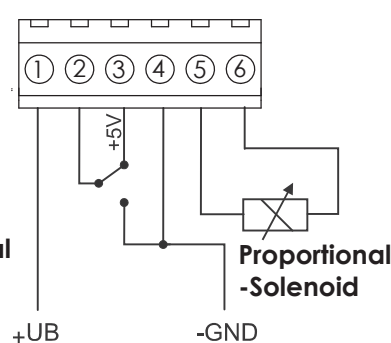
Potentiometer Control



External Current Control



Two Point Control



INSTRUCTIONS FOR SETTING

SUPPLY Green LED

RAMP (Set On)

Ramping up/down time adjustment.
For long ramping times, turn potentiometers clockwise, for short ramping times, turn potentiometers counter-clockwise.

RAMP (Set Off)

Ramping up/down time 0 sec.fast respond.

MAX/MIN

There are multi-course potentiometers for adjustment of min-max and also ramp time.

FREQUENCY ADJ.

The dither frequency can be set with adjustable 40-300 Hz.

TECHNICAL DATA

Supply Voltage: 10-35 VDC

Max. Current: 0-2600 mA adjustable for 12 and 24 VDC
(Output is a PWM-DC)

Min. Current: 0-600 mA adjustable

Ramp Adjustment Up/Down:0~5Sec

Dither Frequency:

40 ~ 300Hz adjustable

Ex-factory standard setting is around 90Hz.

While adjusting anti-clockwise 1 turn, frequency will become as around 55Hz.

Ambient Operating temperature 14~140 °F
-10~60 °C

Weight: 0.05 kg

. Clamp Connections plug in connector
Pin 1 =+ UB; Supply voltage (10-35 VDC)
Pin 2 = control voltage (+ Sig)
Pin 3 = Auxiliary voltage (+ 5 VDC)
Pin 4 = Ground (GND)
Pin 5 = Solenoid (-)
Pin 6 = Solenoid (+)

. Potentiometer
Turn clockwise means increasing current or Extension of ramp time
App. 10 turns for complete range

.Fuse
Standard 20 mm Glass fuse 2.5 A T

.LED's
LED +VS (green) = lights, when voltage supply and fuse are in order
LED1 (red) = lights, if there is an output to the solenoid

CENTRALA ELBLĄG

Ul. Rawska 19B
82-300 Elbląg

tel. /+48/ 55 625 51 00

fax /+48/ 55 625 51 01

Dział Handlowy

tel. /+48/ 55 625 51 51

elblag@hydropress.pl



www.hydropress.pl

ODDZIAŁ GDAŃSK

tel. /+48/ 55 625 51 21

fax /+48/ 55 625 51 22

ODDZIAŁ RUMIA

tel. /+48/ 58 679 34 15

fax /+48/ 55 625 51 25

ODDZIAŁ TYCHY

tel. /+48/ 32 787 52 88

fax /+48/ 55 625 51 38

ODDZIAŁ OLSZTYN

tel. /+48/ 89 532 01 05

fax /+48/ 89 715 21 42

ODDZIAŁ WARSZAWA

tel. /+48/ 22 468 86 97

fax /+48/ 55 625 51 32

BIURO WE WROCŁAWIU

tel. /+48/ 782 838 000

fax /+48/ 55 625 51 35

BIURO W KIELCACH

tel. /+48/ 885 995 501

fax /+48/ 55 625 51 01

BIURO W KRAKOWIE

tel. /+48/ 885 995 019

fax /+48/ 55 625 51 01

BIURO W OPOLU

tel. /+48/ 885 995 011

fax /+48/ 55 625 51 01

BIURO W BYDGOSZCZY

tel. /+48/ 790 222 771

fax /+48/ 55 625 51 01

BIURO W BIAŁYMSTOKU

tel. /+48/ 89 532 01 05

fax /+48/ 89 715 21 42

BIURO W ŁODZI

tel. /+48/ 609 221 421

fax /+48/ 89 715 21 42