

22. COP-MC2 (Moving Coil Controller)

COP-MC2

611143440

The COP-MC2 has been specially developed for the controlling of moving coils. The output stage is based on the COP-PTC module.

This module can be operated with two output currents $\pm 5A$ or can be doubled to $\pm 10A$ by using the two output currents in parallel. The PWM output is additionally filtered so that no PWM frequencies are visible on the coil.

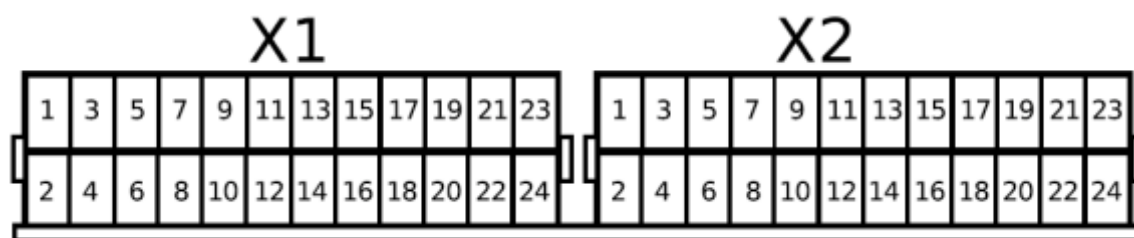
The controlling is carried out by means of a PI controller.

Picture

22.1. Technical Specifications

Moving coil		
Number of power outputs	1 or 2	
Output voltage	± 48	V
Output current at channel 1	10	A
Output current at channel 2	5 per channel	A
Vcc PWR power supply	18 ... 48	V
Maximum Vcc PWR power consumption	10	A
Modul		
Warm-up time	15	min
Maximum power consumption at 24V node	150	mA

22.2. Pin Assignment



X1					
Nr	Dir	Bez	Bez	Dir	Nr
2					1
4					3
6					5
8					7
10					9
12					11
14					13
16					15
18		Shield	Shield		17
20		GND	+24V	Out	19
22					21
24		Shield	Shield		23

X1: Connector is usually not used

X2					
Nr	Dir	Bez	Bez	Dir	Nr
2	In	+PWR	+PWR	In	1
4		GND	GND		3
6	Out	-Pout0	+Pout0	Out	5
8	Out	-Pout1	+Pout1	Out	7
10		GND	GND		9
12					11
14		GND	GND		13
16					15
18					17
20		GND	GND		19
22		GND	GND		21
24		Earth	Earth		23

22.3. Connection Examples

See COP-PTC chapter 21.4.

22.4. Available Options

Art. Nr.:	Label	Option	Beschreibung
611143440	COP-MC2		Two channel moving coil controller