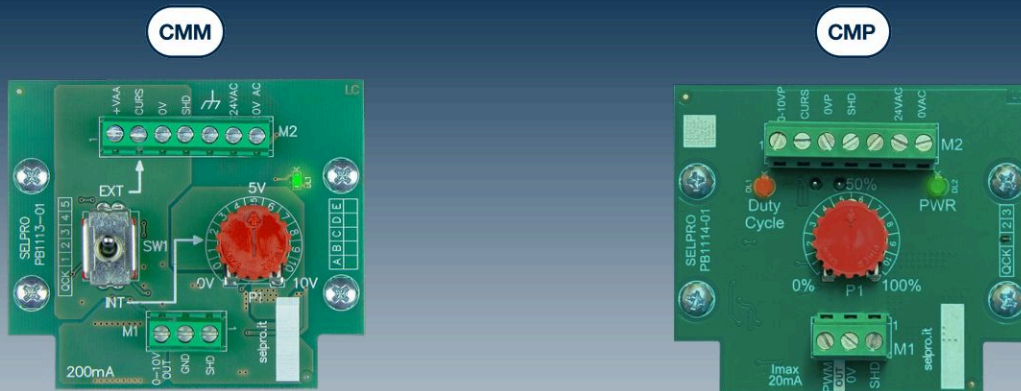


EDDY

Boost your command signal. Active safety for 0-10 V and PWM networks.

Keep your existing controller, boost its signal or test without a controller. EDDY adds **manual signal generation**, a **Booster** and **contact-operated bypass** for EC fans, motorised actuators and adjustable devices. Open the contact to select P1. **CMM** generates 0-10 V and supplies up to 60 mA, 200 mA on request; **CMP** generates or converts to **PWM 0-5 V at 25 kHz**, up to 20 mA.



01

Commission and test without a controller

Commission and test without an upstream controller: the module generates the command, **0-10 V with CMM**, **PWM with CMP**. Set the manual command and bypass value on the **P1** trimmer, from 0 to 100 %.

MANUAL COMMAND

P1: command 0-100 %

Contact-operated bypass

02

Give your fan bank more signal current

Keep the controller and let CMM supply the input load. The always-active **Booster** stabilises and amplifies the command **up to 60 mA**, with **automatic current limiting**; **200 mA on request**.

CMM BOOSTER

Up to 60 mA

200 mA on request

03

Add PWM without changing the controller

Connect PWM fans and actuators to your existing analogue controller. CMP converts its **0-10 V** without replacing the control arrangement: the **Booster** stays active, amplifying **up to 20 mA**, with **PWM 0-5 V output at 25 kHz**.

CMP CONVERTER

0-10 Vdc input

PWM 0-5 V 25 kHz output

For you as a machine builder, installer or test technician working with **EC fans, motorised actuators and adjustable devices**: retain the existing controller or generate a manual command, with two accessories for 0-10 V and PWM signals.

Three situations you recognise. Your controller can stay.

Address the signal problem while keeping your existing controller. Does the fan bank need more current? Does the fan require PWM? Without a command, does the fan decide the speed?



Signal current

Plan your fan bank around its input load

Know the fan bank's current demand before connecting it. Input currents add up: ebm-papst **A3G** draws **0.1 mA**, **COMPACT ACi 4400** draws **8 mA**. Without a booster, the total must stay within the controller's current limit.

OPERATING LIMIT

I want to connect the fan bank I designed, but the controller may not supply enough current.



Signal type

Use PWM and keep your controller

Keep the analogue controller even when the fan requires PWM. Retain the machine's control arrangement: CMP converts the **0-10 V** command to **boosted PWM 0-5 V** at **25 kHz**, up to **20 mA**.

OPERATING LIMIT

My controller works, but its 0-10 V signal is not the PWM the fan requires.



Without a command

Choose the response when the command is lost

Choose the speed to select if the command is lost, even without a fan emergency speed setting. Set **P1** and **open the contact** for bypass; signal loss alone does not activate it.

OPERATING LIMIT

If the command is lost, I do not want the speed to depend solely on the fan's own logic.

One command. More signal current for your fan bank.

Keep one command for the fan bank, with CMM supplying the connected inputs. Size the load against the booster output, without asking the controller to supply every input.

Without EDDY

Know the limit before you connect



Check the load before connecting the fan bank. Without EDDY, every input draws current from the controller: their combined current demand must stay within the current available at its output.

With EDDY

Keep the controller, boost the signal current

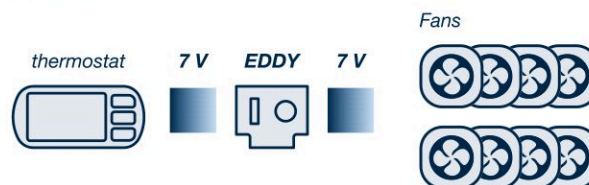


Your controller gives the command; CMM supplies current to the fan bank. Connect the input load to the module's output: **0-10 V**, up to **60 mA**, with **automatic current limiting**.

The signal follows the control you have chosen

Keep the response proportional to your controller's command. CMM stabilises the signal and supplies current to the connected inputs.

EXAMPLE

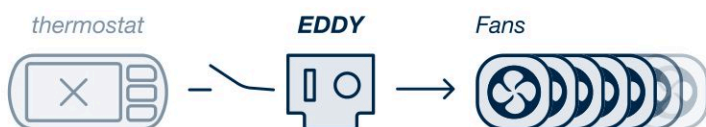


DEFINED RESPONSE

Your emergency speed. Select it by opening a contact.

You choose the bypass speed, even if the fans have no emergency speed setting. Set it on **P1** and select it by **opening the contact**, manually or via the controller's alarm relay. Active safety uses this connection: with the contact closed, the output follows the external command; with it open, the output switches to **P1**.

Select the speed you have chosen



Two speeds from one contact

Switch between two speeds with a switch, without adding a controller. With **Speed-Up**, the P1 trimmer sets the first level: **contact open**, P1 setting; **contact closed**, command at **100 %**.

Contact open = P1

Contact closed = 100 %

Your signal, the output you need. CMM for 0-10 V. CMP for PWM.

Choose the signal you need without replacing the control arrangement. Use CMM for 0-10 V or CMP to add PWM. You can also generate a manual command with P1, without a controller. No software or parameters: **DIN rail, 24 Vac and a trimmer**, with three connection arrangements: **manual, external potentiometer or 0-10 V controller**.

CMM · 0-10 V COMMAND

Generate a command or boost the one you have

Generate the command as **Master** or boost the incoming command as **Slave**. The Booster is always active. A green LED indicates power; **0-10 Vdc** output, up to **60 mA**, with **automatic current limiting; 200 mA on request**.

0-10 Vdc 60 mA 200 mA on request Master
Slave Booster always active

CMP · PWM COMMAND

Add PWM and keep your existing control arrangement

Add PWM without replacing the controller. **Active Fail Safe** selects P1 by **opening the contact**. A green LED indicates power; a variable-brightness red LED indicates output: CMP converts **0-10 V** to **PWM 0-5 V at 25 kHz**, up to **20 mA**.

PWM 0-5 V 25 kHz 20 mA 0-10 Vdc input
Master Slave Active Fail Safe

TECHNICAL CHARACTERISTICS

EDDY — Hardware specifications.

DIN-rail modules, 24 Vac supply, terminals for cables up to 1.5 mm²: they fit any panel.

Power supply	24 Vac ±10% · 50/60 Hz
Consumption	I _{max} 190 mA · maximum power 5 VA
Output signal · CMM	0-10 Vdc · maximum current 60 mA with automatic limiting · 200 mA on request
Output signal · CMP	PWM 0-5 V · 25 kHz · maximum current 20 mA
Command input	0-10 Vdc (Slave operation)
Mounting	In panel on DIN rail
Dimensions	75 × 65 × 32 mm
Protection rating	IP00 · IP55 enclosure on request
Operating temperature	-20...+55 °C
Certifications	CE · UKCA



Selpro SRL

Via Padre Giovanni Piamarta, 5/11
25021 Bagnolo Mella (BS) - Italy

↗ selpro.it

↗ info@selpro.it

↗ +39 030 6821611