

ELECTRONIC CONTROL UNIT

ECU-S1-nc for memetis NC valves



The electronic control unit (ECU) ensures an easy start with memetis miniature valves.

The ECU-S1-nc is specifically developed for the control of a Series09 normally-closed valve.

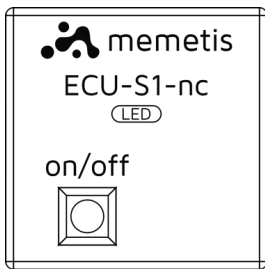
Features:

- controls 1 memetis NC valve
- can be powered from USB B Micro or external power supply
- wide input voltage range of 4.5 – 24 V

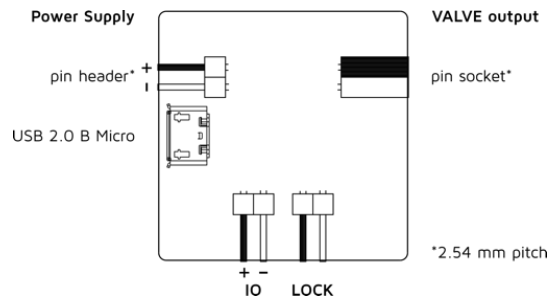
Specifications

Parameter	ECU-S1-nc
Power supply	<ul style="list-style-type: none"> • 4.5 - 24 V DC, USB 2.0 Micro B Socket OR • 2.54 mm pin header, direct internal connection Attention: do not use both at the same time.
Max. power supply current (standby)	0.8 mA @ 4.5 - 24 V
Max. power supply current (output active)	Connected to memetis NC valve, 150 mA @ 5 V, 90 mA @ 12 V, 65 mA @ 24 V
VALVE output	500 mA continuous constant current source, 2.54 mm pin socket
IO input	0 - 20 V non-isolated digital input, 10 k Ω pull-down, HIGH enables VALVE output, LOW disables it, 2.54 mm pin header
IO input threshold	LOW < 1 V, HIGH > 2.5 V
LOCK input	Short with jumper to place device in LOCK mode before connecting power, when locked VALVE output will always be active, all user input is ignored, 2.54 mm pin header
ON/OFF push button	Pressing once enables VALVE output, pressing again disables output
LED	Off when VALVE output is disabled, permanently on when VALVE output is active and output current in regulation, flashing when output current error detected
Temperature range	-20 °C - 60 °C
Dimensions	32 x 32 x 9.5 mm ³

Drawings and Operation



Top view



ECU-S1-nc connected to two memetis valves on a fluidic adapter. The picture shows the **bestseller bundle**.

Complementary memetis Products



The memetis **normally-closed 2/2-way valve** enables complex fluidic systems in small dimensions with very low power consumption and noiseless switching. The **ultracompact valve** is a perfect fit for fluidics in **life sciences** and other small but complex fluidic applications.



The memetis **ultracompact 2/2-way media separated bistable valve** enables complex fluidic systems with extremely low power consumption. Even **battery operation** becomes possible.

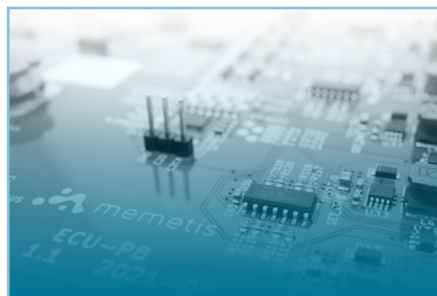


The memetis **fluidic adapter** facilitates connection of tubing to the flange-mount valve. Available with a Polycarbonate base plate to observe the liquid flow or with a black base plate.

Now available at: shop.memetis.com



memetis offers customized **smart valve manifolds** to enable easy operation of complex fluidic systems.



memetis offers customer-specific **valve driver solutions** to enable new and innovative products.

For **custom configurations** (pre-programmed output current profiles) contact us directly via email: contact@memetis.com

Contact Information