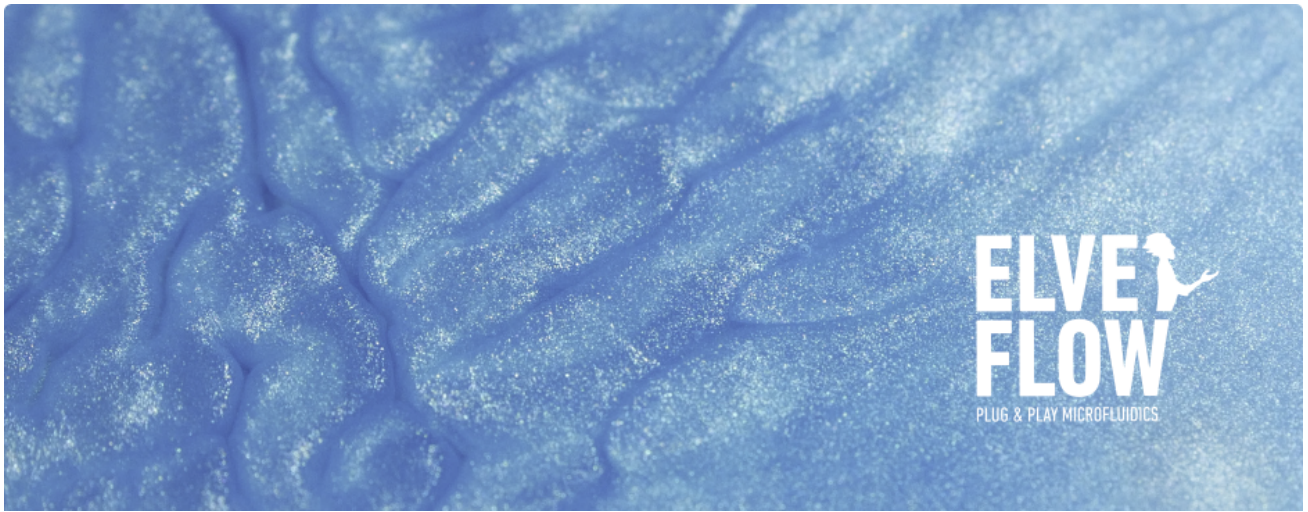
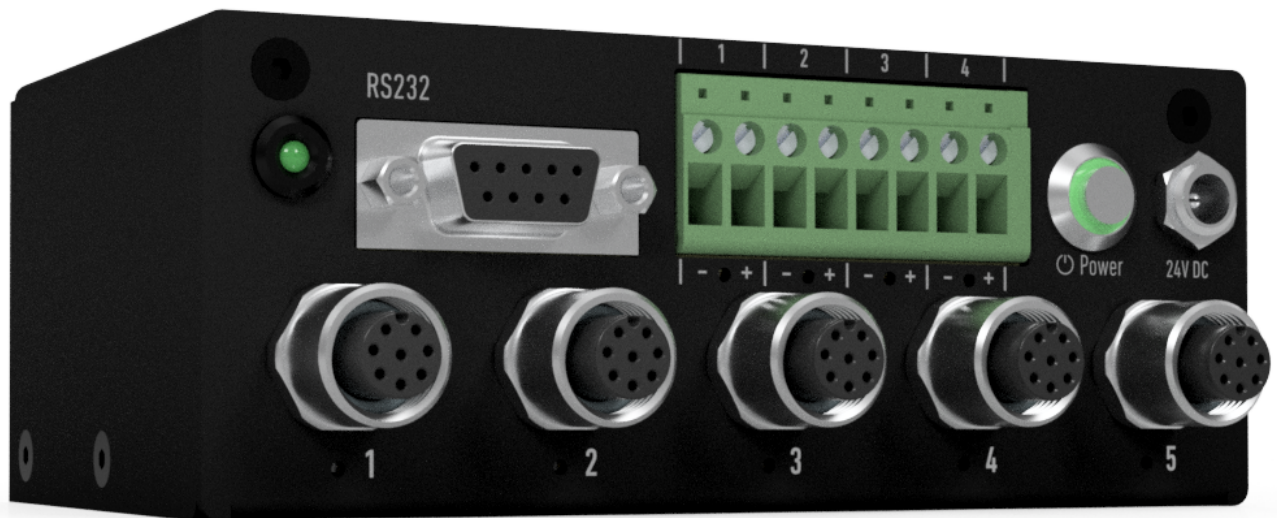




ADVANCED CONTROL CENTER DATASHEET



Elveflow Advanced Control Center controls up to 25 modules (by adding hubs), 4 valve ports integrated.

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General specifications

Dimensions (mm)	124 x 49 x 70 mm
Weight (g)	350 g
Computer connection	RS232 - DB-9
Power connection	DC power connector, Plug, 3A, 2.1mm, 12mm
Number of module connections	5
Modules connections	M12 8 pins (shielded cable 25 cm recommended)
Number of controlled valves	4
Type of valves	2 wires 24V
Valves connection type	Terminal block (2 wires)
Casing material	Aluminium
Mounting orientation	Any
EMC Emission / Immunity	Compliance to: EN 61000-4-2,4,5,6(B); EN IEC 61000-4-3(A); EN IEC 61000-4-11(B/C); EN 61000-3-2; class A; EN 61000-3-3; EN 55016-2-1,3; class B;

Electrical specifications

Input voltage (V)	24V
Maximum power consumption (W)	40W
Maximum current consumption (A)	1.67A Peak
Typical power (W)	2W
Maximum output power / channel (W)	12W
Typical power / channel (W)	1.7W
Maximum valve power / valve channel (W)	4.8W
Maximum current / valve channel (A)	0.2A with 24V command

Provided power supply specifications

Supply - Voltage range (V)	100 to 240 VAC
Supply - AC frequency (Hz)	50 to 60 Hz
Output - Maximum current output (A)	1.67A Peak
Output - Maximum power (W)	40W

Communication specifications

Interface	RS232
Communication type	Universal Asynchronous Receiver-Transmitter (UART)
Serial communication speed	115200 bauds

Control and monitoring

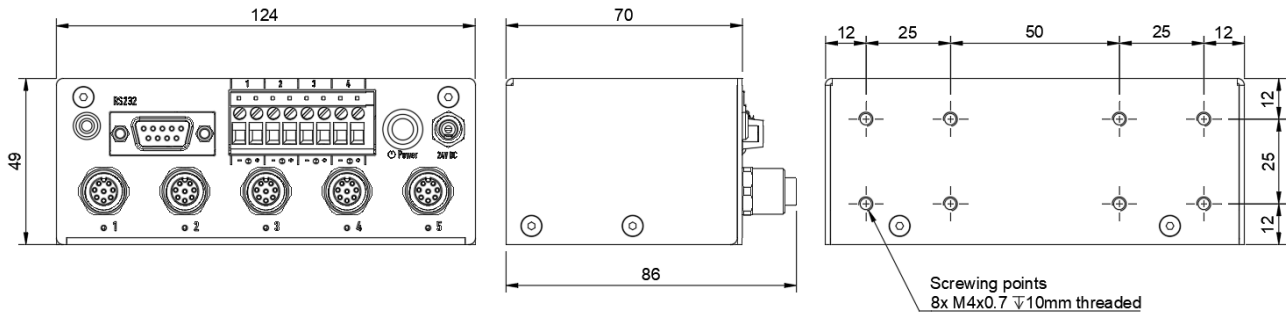
Access to modules	UART commands to Control Center using the module Serial Number
ESI compatibility	Yes
Number of channels available	5, up to 25 using Advanced Hubs
Distributed PI regulation between a regulators module and a sensor on another module	Yes
Internal measurement data logging	No

Internal sequencer

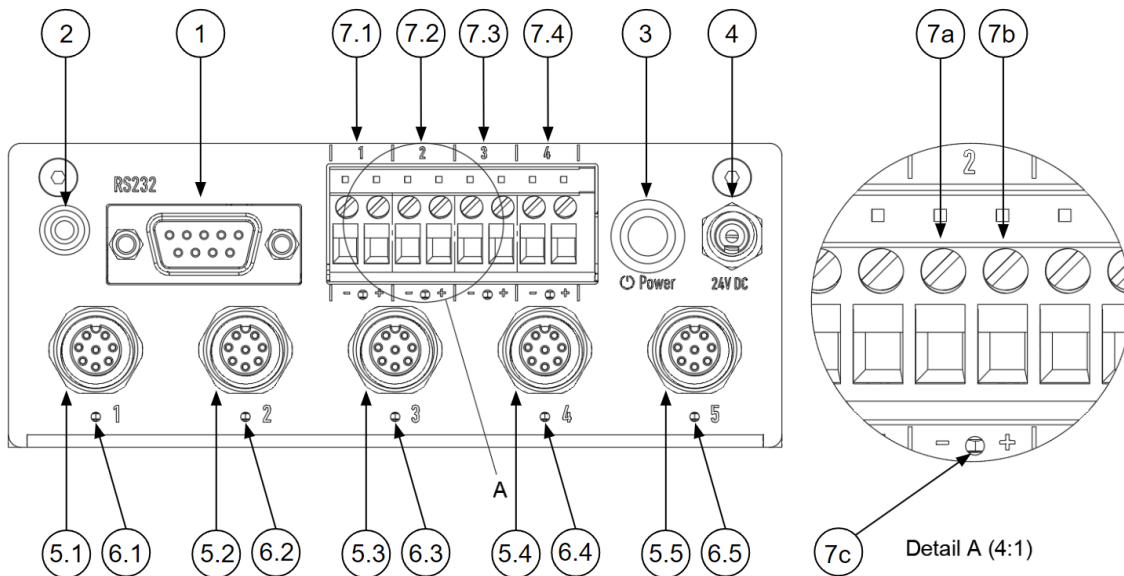
Autonomous from PC	Yes
Internal sequence storage	Yes
Setting to start the sequencer when the Control Center boots	Yes
Number of steps available per sequence	256
Number of sequencers available	5
Sequencers can run in parallel	Yes
Sequencers can play/pause/stop each other	Yes
Sequencers can be modified while running	No

Dimensional drawing

(Dimensions in mm)



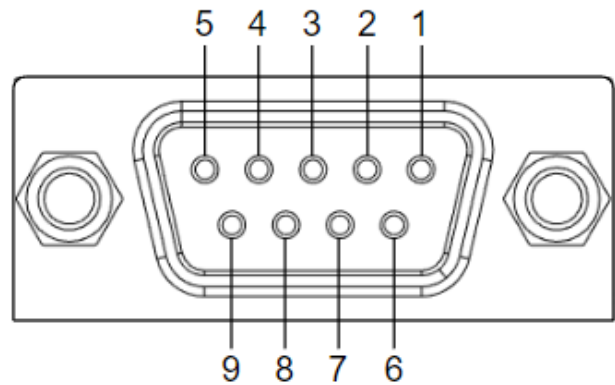
Connections



1	Computer connection	RS232
2	Computer communication LED	Green LED - ON when communicating
3	Power button with LED	Green LED - ON when device powered
4	Power supply	DC power connector, Plug, 3A, 2.1mm, 12mm
5.x	Module connection channel #x	M12 female - 8 pins
6.x	Module channel #x communication LED	Green LED - ON when communicating
7.y	Valve connection channel #y 24V / 2 Watt (max)	7a : Terminal block - (Ground)
		7b : Terminal block + (24V)
		7c : Green LED - ON : tension between blocks

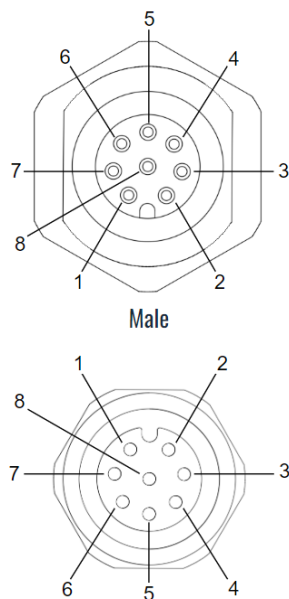
RS-232 female connector pinout (device side)

1	not used
2	RX
3	TX
4	not used
5	GND
6	not used
7	RTS
8	CTS
9	not used



M12 Pin out

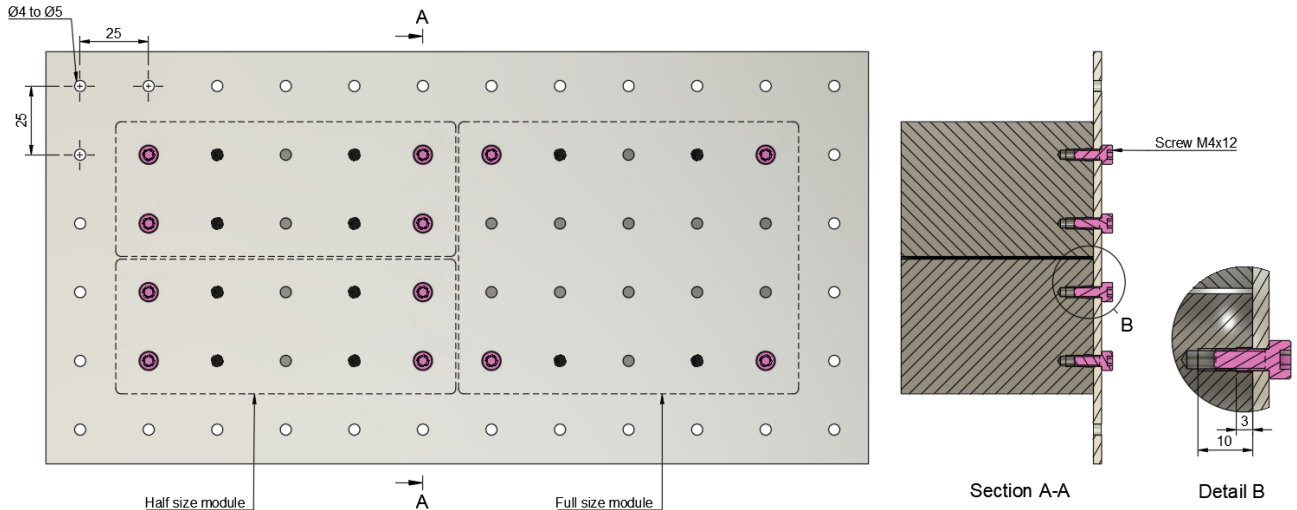
1	RX
2	TX
3	Ground
4	/
5	5V DC
6	/
7	Ground
8	24V DC



Assembly recommendations

The module can be used in any orientation.

Assembly on standard perforated sheet metal



Assembly with brackets

Brackets are Elveflow custom parts that can be purchased with an Advanced system to assemble the modules together (see Advanced Assembly kit).

