Control Unit

<u>C-TOP+'15</u>

- SKS



I Applica.....

The C-TOP+ is a pneumatic control unit designed to ensure an optimum control over the INOXPA process valves. It is compatible with most PLC (Programmable Logic Controllers) automated systems with digital communication.

C-TOP+ can be installed to any current process valve in the food-processing, beverage and biopharmaceutical industries.

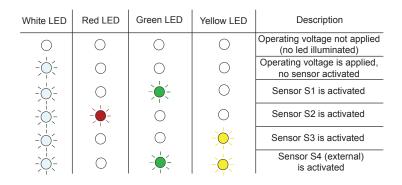
I Operating principle

The C-TOP+ control unit incorporates indication and command devices to control pneumatically operated process valves.

- This unit as a single piece has the following features:
- Pneumatic and electric control over the valve
- Position sensors with feedback

The control units are fitted to the pneumatic actuator. It receives signals from a control panel or from a PLC to actuate the valves and sends signals to the PLC or to the control panel to communicate the status/position of the valve.

C-TOP+ unit contains three LEDs (depending on the configuration) constantly indicating the operating status of the valve. A fourth LED (white) indicates whether the operating voltage supply is connected.



Design and features

The design of the C-TOP+ unit is simple, modular and resistant that guarantees the maximum flexibility. Depending on the product version it has up to three 3/2 solenoid valves (NC) and three sensors. If necessary, an additional external sensor and an additional external solenoid valve can be connected.

The sensors are actuated contact-free by a magnet attached to the control rod. The sensor can be magnetoresistive or magnetic reed type and it is activated without contact with a magnet in the shaft control.

The C-TOP+ units can be set up according to the customer's requirements.

Configuration of solenoid valves

- Single-acting actuation 1 solenoid valve
- Double-acting actuation 2 solenoid valves
- Mixproof valve 3 solenoid valves

Configuration of sensors

- 1 position (closed or open valve) 1 sensor
- 2 positions (closed and open valve) 2 sensors
- 3 positions (open valve, closed valve, Mixproof seat cleaning) 3 sensors



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Control Unit

I Materials

End cap Housing Plate Seals Screws Polypropylene Reinforced polypropylene Reinforced polypropylene EPDM Stainless steel

C1 - weather protected areas

lubricated or non lubricated

Magnetic reed (micro), Bipolar, NO Magnetoresistive (inductive), PNP, NO

Filtered compressed air, grade of filtration 40 µm,

≤ 70 mm 22 mm

Screw-clamped

360°

Position

3/2 way, NC 3 ... 8 bar

LED

6 bar

200 I/min

-20 ... 60 °C -5 ... 60 °C

IP65, IP67

24 V DC ± 10%



I Technical specifications

Outdoor use Stroke Maximum shaft diameter Mounting position Fastening type Operating medium

Measruring principle

Measurement parameter Visual indicators Solenoid valves Operating pressure Nominal operating pressure Standard nominal flow rate Storage temperature Ambient temperature Protection class (in mounted status) Operating voltage DC

Pneumatic connections:

Connection 1: compressed air connection for operating pressure

Connection 3: exhaust

Connection A1 ... A3: working lines of the solenoid valves

Max. line length Electrical connection QS-8 (Ø8 mm pipe)

Integrated silencer

QS-6 (Ø6 mm pipe)

30 m Terminal CAGE CLAMP (0,2 to 1,5 mm²) Cable gland PG 16 x 1.5 (Ø10 mm cable)



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C-TOP+'15 SKS

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I Electrical connection

Version for managing max. 3+1 solenoid valves and 3+1 sensors Pin allocation (spring force terminal 1 x 15 pin)

Signal	Printing	
Switching input of PLC 24 V DC valve V1	16	16
Switching input of PLC 24 V DC valve V2	15	15 💭
Switching input of PLC 24 V DC valve V3	14	14 💭 🖾
Switching input of PLC 24 V DC valveV4	13	13 💭
Output 24 V DC external valve V4	12	12
Output 0 V DC external valve V4	11	11
Power supply 0 V external sensor S4	10	10 💭
Power supply 24 V DC external sensor S4	9	9 💭 🖾
Signal input external sensor S4	8	8 💭 🛛
Output sensor 4 / LED yellow + green for PLC	7	7 🛛 💭 🖾
Output sensor 3 / LED yellow for PLC	6	6 💭
Output sensor 1 / LED green for PLC	5	5 💭
Output sensor 2 / LED red for PLC	4	4 💭 🖾
Power supply 0 V DC	OV	2 💭
Power supply 24 V DC	24 V DC	1

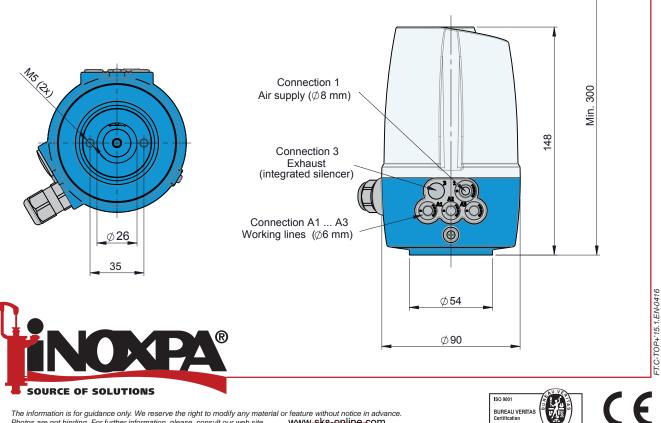
Version for managing max. 2 solenoid valves and 2 sensors

Pin allocation (spring force terminal 1 x 6 pin)

Switching input of PLC 24 VDC valve V1	16	1
Switching input of PLC 24 VDC valve V2	15	1
Output sensor 1/LED green for PLC	5	
Output sensor 2/LED red for PLC	4	i i
Power supply 0 V DC	0V 2	
Power supply 24 V DC	24 V DC	

16	
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5	\square
4	
2	
1	(

I General dimensions





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