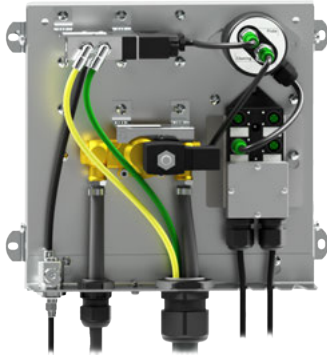


Unclean 700 – Modular Control System for Measuring Loops



Flexible electro-pneumatic controller for automated sensor cleaning with up to 3 rinsing media

Unclean 700 is a product series of control modules that can be used to implement automatic sensor cleaning in static or retractable fittings easily and flexibly.

The modules can be used to configure a variety of cleaning options with up to 3 rinsing media (water, air, or chemical cleaning agents) and to control retractable fittings with pneumatic or hydraulic drive units. The cleaning process can be triggered with a simple switch signal (relay contact at transmitter or pushbutton). Version 710 for installation in a protective cabinet, 720 including cover.



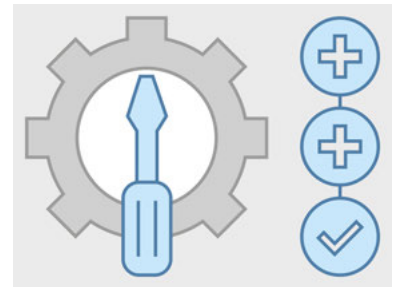
Modularity

- Customized solution in accordance with customer requirements
- Simple conversion for process changes



Flexibility

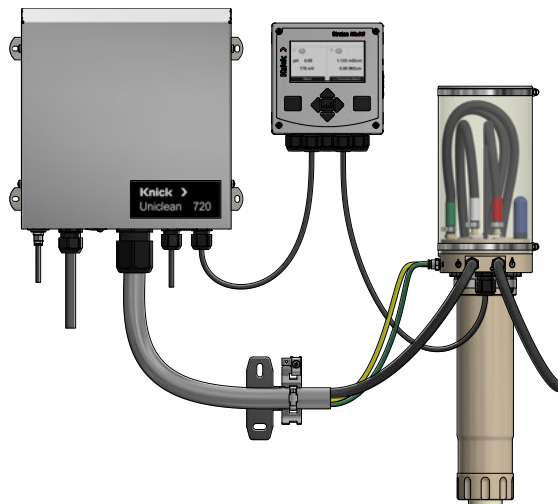
- For operation with static and with retractable fittings
- Control of cleaning processes possible with or without transmitter



Fast Commissioning

- Entry-level solution for automated sensor maintenance
- Modules can be installed in just a few steps

Application Example



Product Code

Control and Cleaning System		EPC710/720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Explosion protection/ approval	Without approval																				
			N	N																	
Housing material	Stainless steel A2				S																
Electrical valve connection	Individual valves with M12 connector					0															
	Valve connection box with screw terminals					1															
Valve function 1	Retractable fitting 5/2-way pneumatic valve					P															
	Water rinsing 2/2-way valve					W	0/L/V														
	Compressed air purging 2/2-way valve					L															
	Control valve 3/2-way pneumatic valve					V															
	None					0															
Valve function 2	Water rinsing 2/2-way valve						W														
	Compressed air purging 2/2-way valve						L														
	Control valve 3/2-way pneumatic valve						V														
	None						0														
Valve function 3	Compressed air purging 2/2-way valve							L													
	Control valve 3/2-way pneumatic valve							V													
	None							0													
Hose version	Without hoses								0	0	0										
	Single hoses in sheath (4x pneumatic (PA), 1x water (EPDM)) Length: 5 m								A	0	5										
	Single hoses in sheath (4x pneumatic (PA), 1x water (EPDM)) Length: 10 m								A	1	0										
Add-on function	None											0	0	-							
	Program module A											0	A	-							
Special version																		-	0	0	0

Accessories

Check valve	RV01
Pipe-mount kit	ZU0601
Chemical pump	ZU0741
Valve for chemical cleaners	ZU0876
Connector for rinsing media	ZU1182

Specifications

Compressed Air Supply

Quality of compressed air according to ISO 8573-1:2010	Quality class 7:2:4, free of aggressive constituents
Operating pressure	Max. 10 bar (max. 145 psi)
Connection	G $\frac{1}{4}$ " female thread

Water Supply

Water quality	Filtered, 100 μ m
Operating pressure	0.5 ... 16 bar (7.3 ... 232 psi)
Temperature	5 ... 80 °C (41 ... 176 °F)
Connection (at valve)	G $\frac{1}{4}$ " female thread, connection nozzle for DN 6 hose

Electrical Power Supply

Operating voltage	24 V DC \pm 10 %
Current consumption	Max. 1 A, less dependent on version
Connection	Screw terminal for rated cross-section of up to 1.5 mm ²

Ambient Conditions

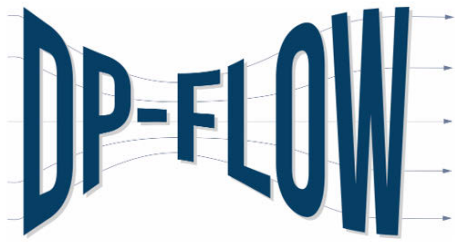
Transport/storage temperature	-20 ... 70 °C (-4 ... 158 °F)
Ambient temperature	-10 ... 70 °C (14 ... 158 °F) When using a water valve: 5 ... 50 °C (41 ... 122 °F)
Relative humidity	5 ... 95 %, not condensing

General

Base plate dimensions (W × H × D)	Approx. 275 × 310 × 40 mm (10.83 × 12.20 × 1.57")
EPC710 dimensions when installed (W × H × D)	Approx. 275 × 310 × 98 mm (10.83 × 12.20 × 3.86")
EPC720 dimensions when installed (W × H × D)	Approx. 294 × 310 × 166 mm (11.57 × 12.20 × 6.53")
Base plate weight	Approx. 1.6 kg
Material	Stainless steel A2
Installation	Wall or pipe mounting
Degree of protection according to EN 60529 (housing installed)	EPC710: No degree of protection EPC720: IP43

Conformity

EMC	EN IEC 61326-1
Immunity to interference	Industrial applications
Emitted interference	Class A (industrial applications) This equipment is not designed for domestic use, and is unable to guarantee adequate protection of the radio reception in such environments.
RoHS conformity	Acc. to EU directive 2011/65/EU



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