Knick

User Manual

Uniclean 730

Modular Control and Cleaning System



Read before installation.
Keep for future use.

www.knick-international.com

Supplemental Directives

READ AND SAVE THIS DOCUMENT FOR FUTURE REFERENCE. BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN THE PRODUCT, PLEASE ENSURE A COMPLETE UNDERSTANDING OF THE INSTRUCTIONS AND RISKS DESCRIBED HEREIN. ALWAYS OBSERVE ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS IN THIS DOCUMENT COULD RESULT IN SERIOUS INJURY AND/OR PROPERTY DAMAGE. THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.

These supplemental directives explain how safety information is laid out in this document and what content it covers.

Safety Chapter

This document's safety chapter is designed to give the reader a basic understanding of safety. It illustrates general hazards and gives strategies on how to avoid them.

Warnings

This document uses the following warnings to indicate hazardous situations:

Icon	Category	Meaning	Remark
⚠	**WARNING!**	Designates a situation that can lead to death or serious (irreversible) injury.	The warnings contain information on how to avoid the hazard.
⚠	**CAUTION!**	Designates a situation that can lead to slight or moderate (reversible) injury.	
Without	**NOTICE!**	Designates a situation that can lead to property or environmental damage.	

Symbols Used in this Document

Icon	Meaning
→	Reference to additional information
✓	Interim or final result in instructions for action
▶	Sequence of figures attached to an instruction for action
①	Item number in a figure
(1)	Item number in text

Related Documents

- Retractable fitting User Manual. → *www.knick-international.com*
- Industrial transmitter User Manual. → *www.knick-international.com*
- Uniclean 700 system component Installation Guides. → *www.knick-international.com*

Table of Contents

1 Safety 5
1.1 Intended Use 5
1.2 Personnel Requirements 5
1.3 Residual Risks 6
1.4 Hazardous Substances 6
1.5 Operation and Installation 7
1.6 Maintenance and Spare Parts 7
1.7 Safety Training 7

2 Product 8
2.1 Package Contents 8
2.2 Product Identification 8
2.2.1 Example of a Version 8
2.2.2 Product Code 9
2.3 Nameplate 10
2.4 Symbols and Markings 10
2.5 Design of the Control and Cleaning System 11
2.5.1 Design 12
2.5.2 Function 13
2.5.3 ZU1182 Connector for Rinsing Media 15

3 Installation 16
3.1 General Installation Instructions 16
3.2 Wall Mounting 16
3.3 Pipe Mounting 17
3.4 Compressed Air Supply Installation 17

4 Commissioning 18

5 Operation 19

6 Maintenance 22
6.1 Inspection and Maintenance 22
6.2 Corrective Maintenance 22
6.2.1 Replacing Faulty Components 22
6.2.2 Knick Repair Service 22

7 Troubleshooting 23

8 Decommissioning 24
8.1 Removal 24
8.2 Return 24
8.3 Disposal 24

9 Spare Parts and Accessories 25
9.1 Accessories 25

10 Dimension Drawings 27

11 Specifications 28

1 Safety

This document contains important instructions for the use of the product. Always follow all instructions and operate the product with caution. If you have any questions, please contact Knick Elektronische Messgeräte GmbH & Co. KG (hereinafter sometimes referred to as "Knick") using the information provided on the back page of this document.

1.1 Intended Use

Uniclean 730 (hereafter also called EPC730 or product) is an electropneumatic control and cleaning system for the semi-automated operation of a measuring loop, e.g., for process analytics. In combination with the products listed below, a sensor can be temporarily immersed in the process medium to record measured values and then automatically rinsed or cleaned.

EPC730 can be combined with the following products, for example:

Static fittings	ARD50 with rinse function
	ARD75 with rinse function
Retractable fittings	SensoGate
	WA111
Transmitter	Stratos Multi

Further information can be found in the relevant product documentation.

The defined rated operating conditions must be observed when using this product.
→ *Specifications, p. 28*

USE CAUTION AT ALL TIMES WHEN INSTALLING, USING, MAINTAINING OR OTHERWISE INTERACTING WITH THE PRODUCT. ANY USE OF THE PRODUCT EXCEPT AS SET FORTH HEREIN IS PROHIBITED, AND MAY RESULT IN SERIOUS INJURY OR DEATH, AS WELL AS DAMAGE TO PROPERTY. THE OPERATING COMPANY SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGES RESULTING FROM OR ARISING OUT OF AN UNINTENDED USE OF THE PRODUCT.

1.2 Personnel Requirements

The operating company shall ensure that any personnel using or otherwise interacting with the product is adequately trained and has been properly instructed.

The operating company shall comply and cause its personnel to comply with all applicable laws, regulations, codes, ordinances, and relevant industry qualification standards related to product. Failure to comply with the foregoing shall constitute a violation of operating company's obligations concerning the product, including but not limited to an unintended use as described in this document.

1.3 Residual Risks

The product has been developed and manufactured in accordance with generally accepted safety rules and regulations, as well as an internal risk assessment. Despite the foregoing, the product may among others bear the following risks:

Environmental Influences

The effects of moisture, ambient temperature, chemicals, and corrosion can negatively impact the safe operation of the product. Observe the following instructions:

- Only operate the EPC730 Control and Cleaning System in compliance with the stated operating conditions. → *Specifications, p. 28*
- Observe the permissible ambient temperature. Alternatively, use protective cabinets and heatable media connections. → *Specifications, p. 28*

Drinking Water Connection

If the EPC730 is connected to the drinking water supply, impurities caused by the rinse and process media may occur. Note the information in EN 1717. Install a suitable check valve at the water or rinse connection. → *Accessories, p. 25*

1.4 Hazardous Substances

IN THE EVENT OF ANY CONTACT WITH HAZARDOUS SUBSTANCES OR OTHER INJURY HEREUNDER, SEEK IMMEDIATE MEDICAL ATTENTION OR FOLLOW APPLICABLE PROCEDURES TO ADDRESS HEALTH AND SAFETY OF PERSONNEL. FAILURE TO SEEK IMMEDIATE MEDICAL ATTENTION MAY RESULT IN SERIOUS INJURY OR DEATH.

In certain situations (e.g., sensor replacement or corrective maintenance), personnel may come into contact with the following hazardous substances:

- Process medium
- Cleaning medium
- Buffer and calibration solutions

The operating company is responsible for conducting a risk assessment.

See the relevant manufacturers' safety datasheets for hazard and safety instructions on handling hazardous substances.

1.5 Operation and Installation

All national and local regulations relating to the installation and operation of the product in force at the destination must be followed.

1.6 Maintenance and Spare Parts

Preventive Maintenance

Preventive maintenance can keep the product in good condition and minimize downtimes. Knick provides recommended inspection and maintenance intervals.
→ *Maintenance, p. 22*

Spare Parts

For professional corrective maintenance of the product, only use Knick genuine spare parts. Usage of any other spare parts shall constitute an unintended use of the product.

Repair Service

The Knick Repair Service offers professional corrective maintenance for the product to the original quality. Upon request, a replacement unit can be obtained for the period of the repair.

Further information can be found at www.knick-international.com.

1.7 Safety Training

Upon request, Knick Elektronische Messgeräte GmbH & Co. KG will provide safety briefings and product training during initial commissioning of the product. More information is available from the relevant local contacts.

2 Product

2.1 Package Contents

- EPC730
- User Manual

2.2 Product Identification

The various versions of the EPC730 product are coded in a model designation.

The model designation is stated on the nameplate, the delivery note, and the product packaging. → *Nameplate, p. 10*

2.2.1 Example of a Version

Model Designation		**EPC730**	**–**	**N**	**N**	**C**	**1**	**P**	**W**	**0**	**A**	**0**	**5**	**0**	**A**	**–**	**0**	**0**	**0**
Explosion protection / Approval	Without approval			**N**	**N**											**–**			
Material of housing	Stainless steel A2, powder coated					**C**										**–**			
Electrical valve connection	Valve connection box with screw terminals						**1**									**–**			
Valve function 1	Retractable fitting 5/2-way pneumatic valve							**P**								**–**			
Valve function 2	Water rinsing 2/2-way valve								**W**							**–**			
Valve function 3	Without									**0**						**–**			
Hose version	Single hoses in sheath (4x pneumatic (PA), 1x water (EPDM)) Length: 5 m										**A**	**0**	**5**			**–**			
Add-on function	Program module A													**0**	**A**	**–**			
Special version	Without															**–**	**0**	**0**	**0**

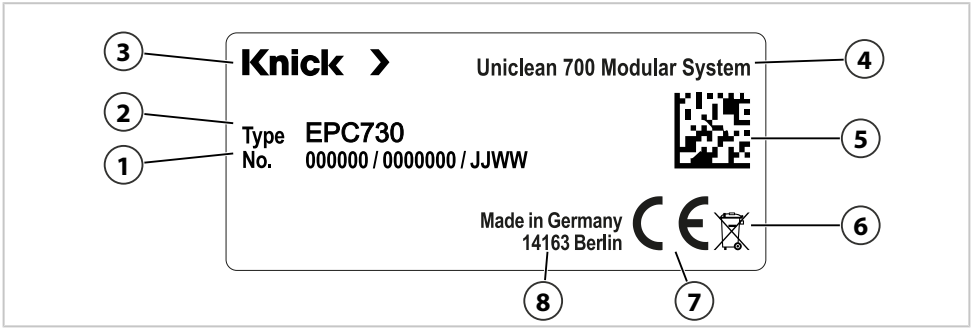
2.2.2 Product Code

Control and Cleaning System		**EPC730**	–	_	_	_	_	_		_	_	_	_	_	_	–	_	_	_
Explosion protection / Approval	Without approval			**N**	**N**											–			
Material of housing	Stainless steel A2, powder coated					**C**										–			
Electrical valve connection	Individual valves with M12 plug						**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**								–			
	Without							**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**							–			
	Without								**0**							–			
Valve function 3	Compressed air purging 2/2-way valve									**L**						–			
	Control valve 3/2-way pneumatic valve									**V**						–			
	Without									**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	Without													**0**	**0**	–			
	Program module A													**0**	**A**	–			
Special version	Without															–	**0**	**0**	**0**

2.3 Nameplate

The EPC730 Control and Cleaning System is identified by a nameplate on the base plate.

The figure shows the nameplate of the EPC730 Control and Cleaning System.



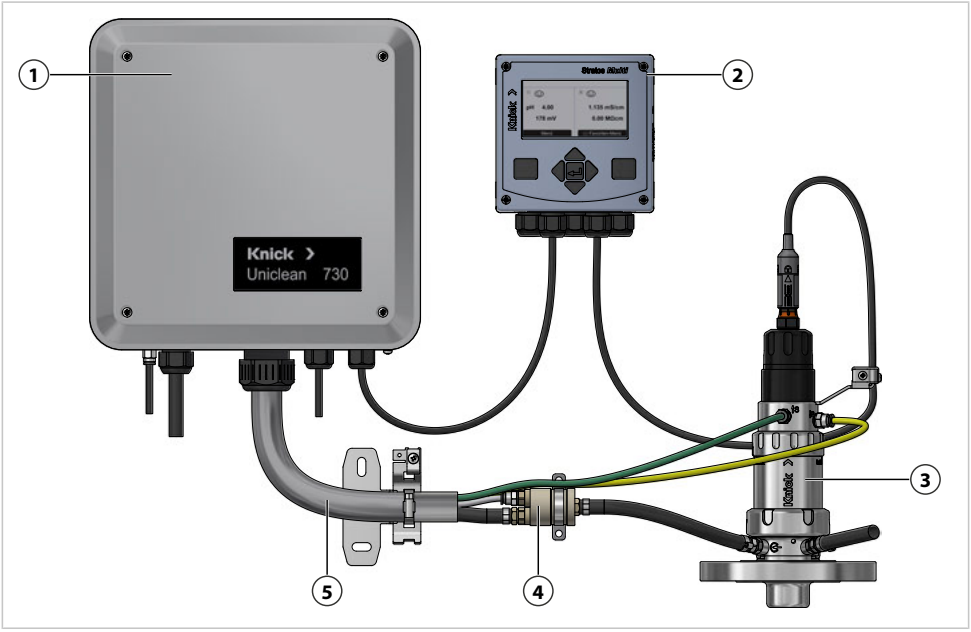
1	Item number, serial number, year/month	5	DataMatrix code
2	Device designation	6	WEEE mark
3	Manufacturer	7	CE mark
4	Product family	8	Manufacturer address

2.4 Symbols and Markings

	Special conditions and the product's possible danger points. Read the user manual, observe the specifications, and follow the instructions in the safety guide.
	Refer to the product documentation.
	The affixed CE mark on the product indicates that the product complies with the applicable requirements stipulated in the harmonization legislation of the European Union.
	The symbol on Knick products means that waste devices must be disposed of separately from unsorted municipal waste.

2.5 Design of the Control and Cleaning System

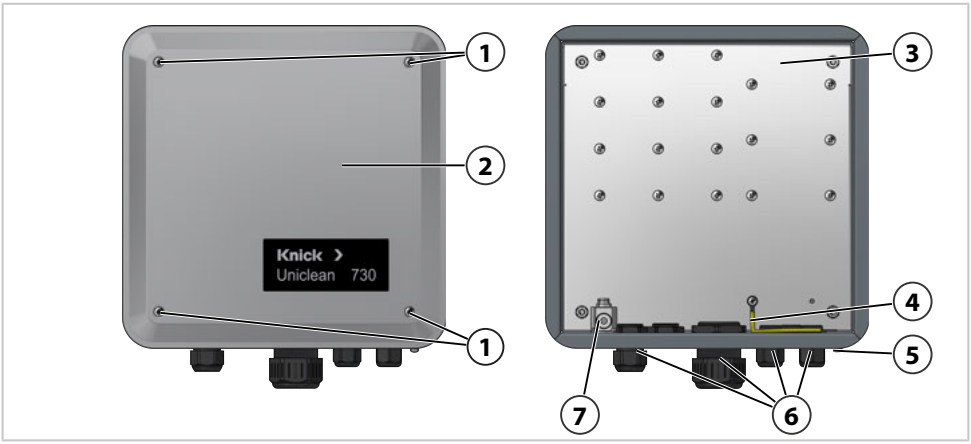
The figure shows an installation example of the EPC730 Control and Cleaning System.



1	EPC730 Control and Cleaning System	4	ZU1182 connector for rinsing media
2	Industrial transmitter, e.g., Stratos Multi	5	EPC700 Media Hose
3	Retractable fitting, e.g., WA131		

2.5.1 Design

The EPC730 control and cleaning system is a modular system. The combination of different valves fulfills the special requirements of a measuring loop. → *Function, p. 13*

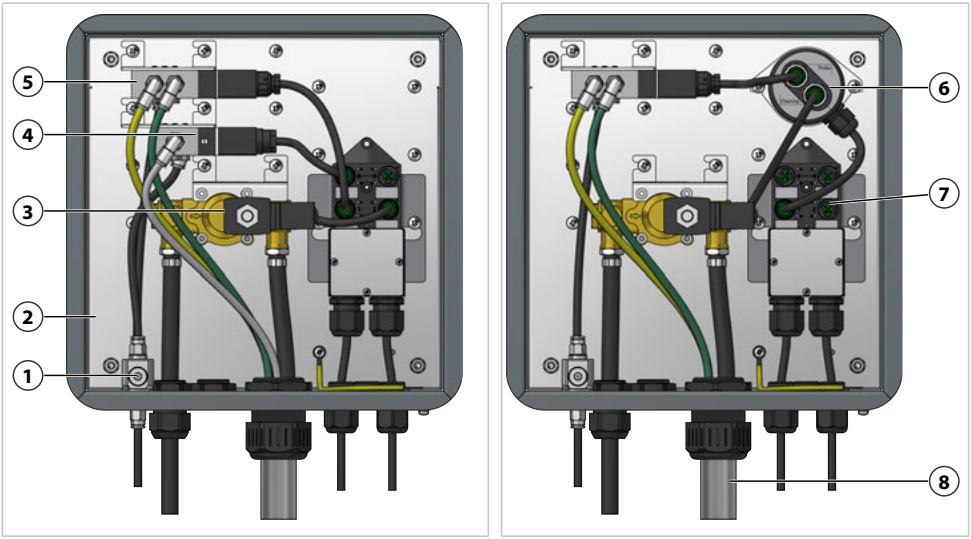


1	Lid fastening screws	5	Ground connection
2	Lid	6	Cable glands
3	Base plate with pre-mounted screws	7	Compressed air distributor
4	Equipotential bonding of housing with lid		

In the ex works state, the system consists of a housing with a lid and a base plate with pre-mounted screwed contacts. The following components are mounted on the base plate, for example:

EPC730
Valves (e.g.: EPC700 Air 5/2-Way Valve, EPC700 Water 2/2-Way Valve) [1)]
EPC700 Media Hose[1)]
EPC700 Valve Connection Box[1)]
EPC700 Module A program module[1)]

[1)] Availability dependent on the ordered version → *Product Code, p. 9*



1	Compressed air distributor (max. 3 connections)	5	EPC700 Air 5/2-Way Valve
2	Base plate	6	EPC700 Module A program module
3	EPC700 Water 2/2-Way Valve	7	EPC700 Valve Connection Box
4	EPC700 Air 2/2-Way Valve	8	EPC700 Media Hose

2.5.2 Function

Valve Functions

The EPC730 electro-pneumatic control and cleaning system can be combined with different devices and fittings and expanded into a complete measuring point for process analytics. Different valves are required for the fittings.

An overview of possible fittings and functions:

Fitting	Valve	Functions
ARF210, ARF215 flow-through fittings with rinse function	EPC700 Water 2/2-Way Valve	Cleaning with water
	EPC700 Air 2/2-Way Valve	Purging with air
	EPC700 Air 3/2-Way Valve	Cleaning with cleaner[1)]
ARD50/ARD75 immersion fitting with rinse function	EPC700 Water 2/2-Way Valve	Cleaning with water
	EPC700 Air 2/2-Way Valve	Purging with air
	EPC700 Air 3/2-Way Valve	Cleaning with cleaner[1)]

1) An external pneumatically switched valve or a pneumatically driven pump is also required.

Fitting	Valve	Functions
ARD75 immersion fitting sensor adapter with lock-gate function	EPC700 Air 5/2-Way Valve EPC700 Water 4/2-Way Valve	Move to PROCESS and SERVICE positions Pneumatic Water-hydraulic
	EPC700 Water 2/2-Way Valve	Cleaning with water
	EPC700 Air 2/2-Way Valve	Purging with air
	EPC700 Air 3/2-Way Valve	Cleaning with cleaner[1)]
WA111 retractable fitting	EPC700 Air 5/2-Way Valve EPC700 Water 4/2-Way Valve	Move to PROCESS and SERVICE positions Pneumatic Water-hydraulic
	EPC700 Water 2/2-Way Valve	Cleaning with water
	EPC700 Air 2/2-Way Valve	Purging with air
	EPC700 Air 3/2-Way Valve	Cleaning with cleaner[1)]
SensoGate WA131/WA132 retractable fitting	EPC700 Air 5/2-Way Valve	Move to PROCESS and SERVICE positions Pneumatic
	EPC700 Water 2/2-Way Valve	Cleaning with water
	EPC700 Air 2/2-Way Valve	Purging with air
	EPC700 Air 3/2-Way Valve	Cleaning with cleaner[1)]
SensoGate WA131H retractable fitting	EPC700 Air 5/2-Way Valve	Move to PROCESS and SERVICE positions Pneumatic
	EPC700 Water 2/2-Way Valve	Cleaning with water
	EPC700 Air 2/2-Way Valve	Purging with air
	EPC700 Air 3/2-Way Valve	Cleaning with cleaner[1)]/steam[2)]
SensoGate WA131M/ WA133M retractable fitting	EPC700 Water 2/2-Way Valve	Cleaning with water
	EPC700 Air 2/2-Way Valve	Purging with air
	EPC700 Air 3/2-Way Valve	Cleaning with cleaner[1)]
SensoGate WA131MH retractable fitting	EPC700 Water 2/2-Way Valve	Cleaning with water
	EPC700 Air 2/2-Way Valve	Purging with air
	EPC700 Air 3/2-Way Valve	Cleaning with cleaner[1)]/steam[2)]

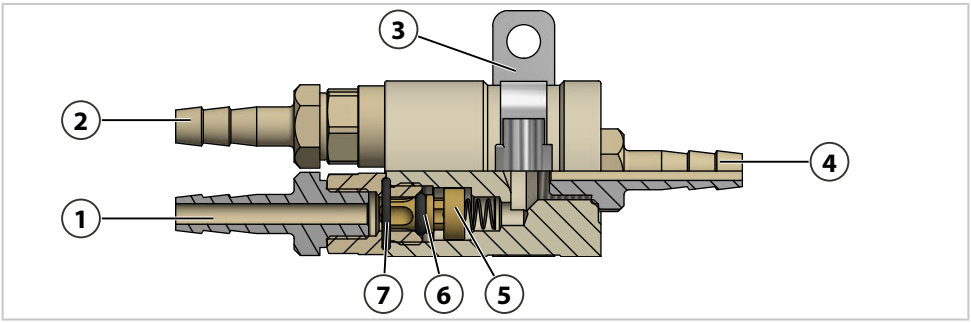
1) An external pneumatically switched valve or a pneumatically driven pump is also required.

2) An external steam valve is also required.

2.5.3 ZU1182 Connector for Rinsing Media

When cleaning the retractable fitting's rinsing chamber with two rinsing media, the connection hoses must first be bundled in the connector for rinsing media. Check valves are located at each connector input to prevent the backflow of media.

Note: Do not activate both rinsing media simultaneously.



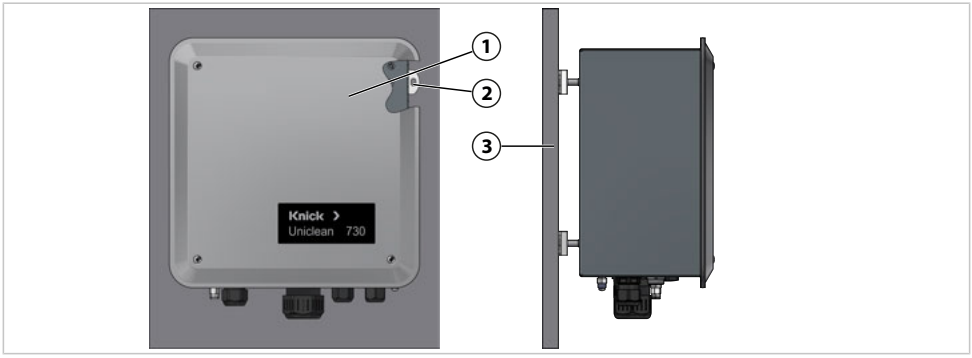
1	Inlet for rinsing medium 1 (DN6 hose connection)	5	Check valve
2	Inlet for rinsing medium 2 (DN6 hose connection)	6	O-ring 4 x 2 mm
3	Wall holder with clip	7	O-ring 10 x 1.5 mm
4	Outlet for rinsing medium 1 or 2 (DN6 hose connection)		

3 Installation

3.1 General Installation Instructions

- The EPC730 Control and Cleaning System can be installed on a wall or pipe.
- The mounting location must be sufficiently stable and have low vibration.
- For outdoor installation, observe the ambient temperature. → *Specifications, p. 28*

3.2 Wall Mounting

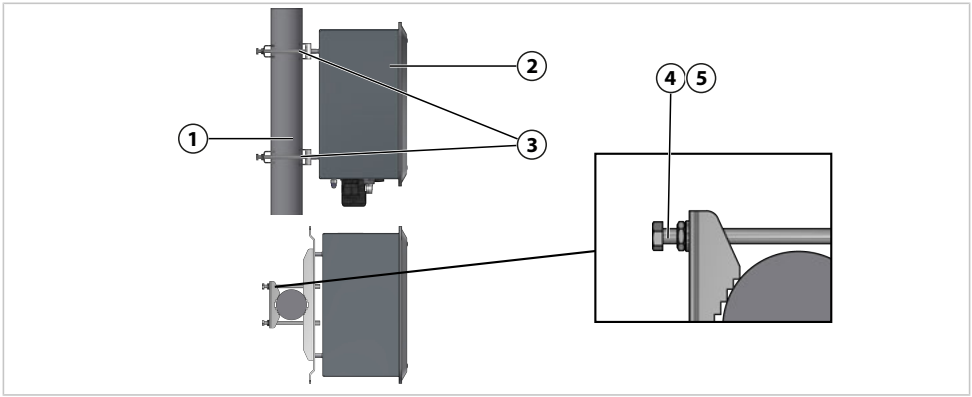


01. Check the EPC730 **(1)** for damage.
02. Prepare the holes in accordance with the Dimension Drawing.
    → *Dimension Drawings, p. 27*
03. Using screws and washers, fasten the EPC730 to the wall **(3)** via the four holes in the wall mount **(2)** [1)].
04. Check for a tight fit.

[1)] Not included in the package contents.

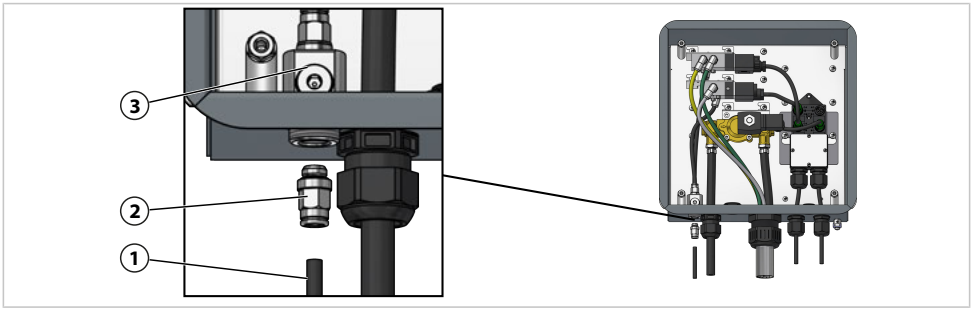
3.3 Pipe Mounting

Note: Accessory ZU0601 is designed for a pipe diameter of 30 … 65 mm (1.18 … 2.56″).



01. Check the EPC730 **(2)** for damage.
02. Fasten accessory ZU0601 pipe-mount kit[1)] **(3)** to the rear of the housing.
03. Remove the screws **(4)** and washers **(5)** from accessory ZU0601 pipe-mount kit **(3)**.
04. Position the EPC730 on the pipe **(1)** and fasten with screws **(4)** and washers **(5)**.
05. Check for a tight fit.

3.4 Compressed Air Supply Installation



01. For the compressed air connection, select a suitable hose **(1)** with connector **(2)** (male thread G¼″).
02. Screw the connector **(2)** into the compressed air distributor **(3)** and install the compressed air hose **(1)**.

1) Observe the user manual of the ZU0601 accessory.

4 Commissioning

⚠ WARNING! In the event of damage or improper installation, process medium may escape from the fitting, potentially releasing hazardous substances. Adhere to the safety instructions.

01. Check the EPC730 control and cleaning system to make sure it is complete and undamaged.
    Note: Do not use damaged parts.
02. Mount the EPC730 on a wall or pipe. → *Wall Mounting, p. 16*
    → *Pipe Mounting, p. 17*
03. Mount the valves[1] on the base plate; see installation guides.
04. Mount the EPC700 Valve Connection Box[2] on the base plate; see installation guide.
05. Mount the EPC700 Module A program module[2] on the base plate; see installation guide.
06. Mount the EPC700 Media Hose[2] on the base plate; see installation guide.
07. Connect equipotential bonding to the lid and mount the lid.
08. Mount the fitting and industrial transmitter, see corresponding user manuals.
09. Connect the compressed air and check the tightness of the hose connections.
10. Connect the water supply air and check the tightness of the hose connections.
11. Connect the 24 V DC power supply.
12. Connect the grounding connection to the equipotential bonding of the system.
13. Check that the retractable fitting is functioning correctly, see corresponding user manual.

✓ EPC730 is ready for operation.

1) Availability dependent on the ordered version → *Product Code, p. 9*

2) Dependent on the ordered version → *Product Code, p. 9*

5 Operation

The EPC730 Control and Cleaning System is controlled, for example, by an industrial transmitter such as the Stratos Multi. For the user-defined control of program flows (move sensor into the process, move sensor out of the process, cleaning), a user-defined relay contact must be available per valve.

Program Flows when Using EPC700 Module A

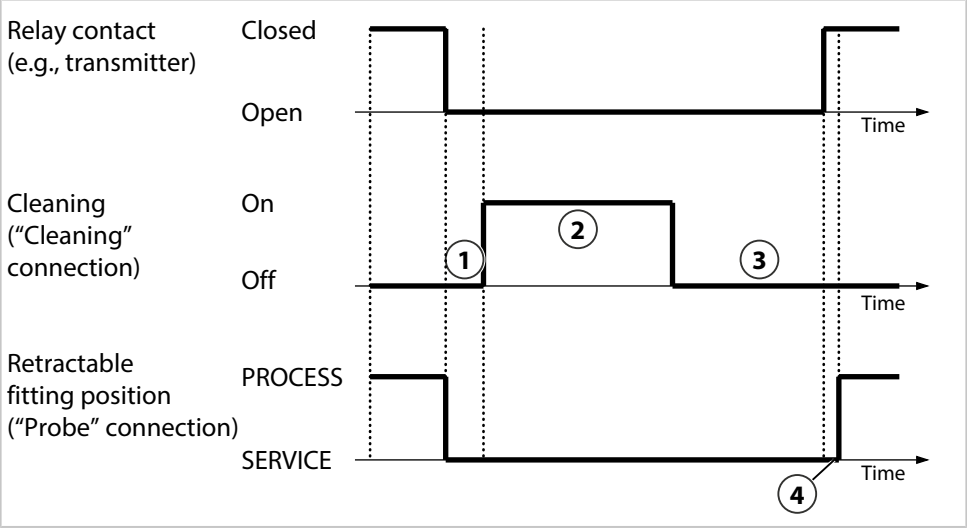
With program module A, a fixed cleaning cycle in a retractable fitting can be triggered via a relay contact in the industrial transmitter.

Note: The relay contact must be configured as a normally closed contacts (NC contact).

The valves are controlled in a fixed sequence.

- Move the sensor out of the process.
- Clean the sensor.
- Move the sensor into the process.

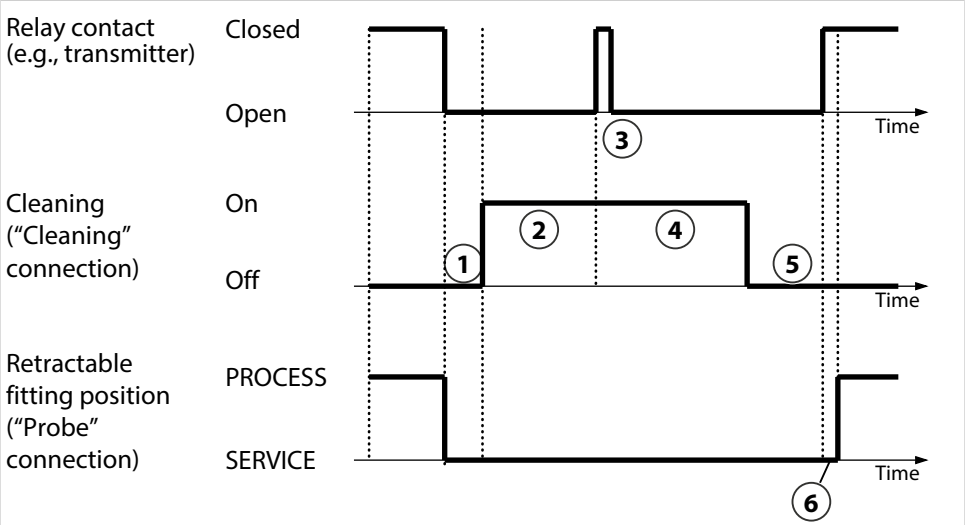
The following switching sequence is defined:



1	Waiting time approx. 5 s	3	Waiting time (sensor in park position)
2	Cleaning duration approx. 30 s	4	Pick-up delay approx. 2 s

Extension of the Cleaning Time

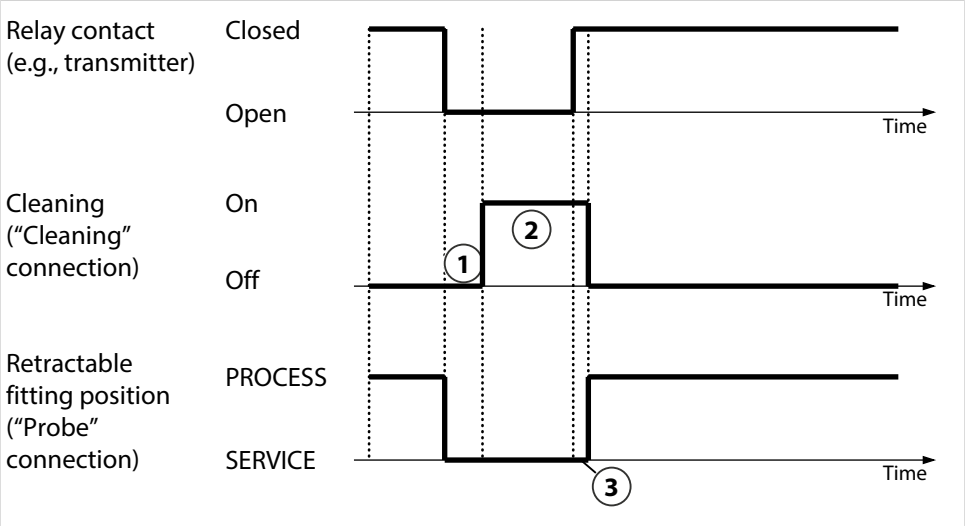
Longer cleaning is achieved by pulsing the relay contact no later than 25 seconds after the relay contact opens. Multiple extensions of the cleaning time (by approximately 30 seconds each) are possible.



1	Waiting time approx. 5 s	4	Cleaning duration approx. 30 s
2	Cleaning duration < 25 s	5	Waiting time (sensor in park position)
3	Extension pulse < 2 s	6	Pick-up delay approx. 2 s

Interrupting Cleaning

Closing the switch contact for longer than 2 seconds interrupts cleaning. The sensor is moved to the process position.



1 Waiting time approx. 5 s
2 Shortened cleaning duration
3 Pick-up delay approx. 2 s

6 Maintenance

6.1 Inspection and Maintenance

NOTICE! Different process conditions (e.g., pressure, temperature, chemically aggressive media) will affect the inspection and maintenance intervals. Analyze the specific application and process conditions at hand. Define appropriate intervals based on similar application cases where experience has already been gained.

Interval[1)]	Work required
6 months	Check the valves to make sure they are functioning correctly. If not, replace valves.

6.2 Corrective Maintenance

6.2.1 Replacing Faulty Components

Defective components must be replaced.

01. Move the retractable fitting to the SERVICE position (SERVICE limit position) if necessary.
02. Block the compressed air and water supply.
03. Remove the lid.
04. Disconnect the EPC700 Valve Connection Box[2)] from the power supply.
05. Replace components, see installation guides.
06. Check the connections and hoses for tightness.
07. Connect the EPC700 Valve Connection Box to the power supply unit.
08. Mount the lid.
09. Unblock the compressed air and water supply.

6.2.2 Knick Repair Service

The Knick Repair Service offers professional corrective maintenance for the product to the original quality. Upon request, a replacement unit can be obtained for the period of the repair.

Further information can be found at www.knick-international.com.

1) The stated intervals are general recommendations based on Knick's experience. The actual intervals are dependent on the specific application for which the EPC730 is used.

2) Availability dependent on the ordered version → *Product Code, p. 9*

7 Troubleshooting

Malfunction State	Possible Cause	Remedy
Fitting does not move.	No compressed air supply.	Install and connect the compressed air supply. → *Compressed Air Supply Installation, p. 17*
	PROCESS and SERVICE position compressed air connections reversed.	Replace the compressed air hoses; see the EPC700 Air 5/2-Way Valve and EPC700 Hose installation guides.
	Valve faulty.	Replace the EPC700 Air 5/2-Way Valve. → *Replacing Faulty Components, p. 22*
	No 24 V DC power supply.	Check the terminal assignments; see the EPC700 Valve Connection Box installation guide.
	Power supply is connected via the industrial transmitter.	Connect the EPC700 Valve Connection Box to its own power supply; see the installation guide.
Fitting is not cleaned.	No compressed air supply	Install and connect the compressed air supply. → *Compressed Air Supply Installation, p. 17*
	No water supply	Check and, as necessary, reconnect the water supply; see the EPC700 Water 2/2-Way Valve installation guide.
	Supply hoses leaking.	Check the connections of the compressed air and water hoses; see the EPC700 Hose installation guide.
	Compressed air or water valve faulty.	Replace the valve. → *Replacing Faulty Components, p. 22*
	No 24 V DC power supply	Check the terminal assignments; see the EPC700 Valve Connection Box installation guide.
	Power supply is connected via the industrial transmitter.	Connect the EPC700 Valve Connection Box to its own power supply; see the installation guide.
EPC730 does not function.	There is no 24 V DC power supply.	Check the terminal assignment, see the EPC700 Valve Connection Box installation guide.
	The power supply is connected via the industrial transmitter.	Connect the EPC700 Valve Connection Box to its own power supply unit, see installation guide.

8 Decommissioning

8.1 Removal

⚠ WARNING! Process medium, potentially containing hazardous substances, may escape from the fitting. Follow the safety instructions. → *Safety, p. 5*

01. As necessary, move the retractable fitting into SERVICE position.
02. Disconnect the EPC700 Valve Connection Box[1)] from the power supply.
03. Depressurize the process.
04. Disconnect the compressed air and water supply.
05. Remove components; see the installation guide.
06. Remove the EPC700 Media Hose. Drain media from hoses and dispose of if necessary.

8.2 Return

If a product must be returned, send it to the responsible local representative in a clean condition and securely packaged. → *knick-international.com*

Upon contact with hazardous substances, decontaminate or disinfect the product before shipping. Always include the relevant return form (Declaration of Decontamination) with shipments, in order to avoid hazards to our Service employees. → *knick-international.com*

8.3 Disposal

To dispose of the product properly, follow the local regulations and laws.

The EPC730 can contain various materials, depending on the version concerned; see the installation guide.

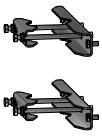
Customers can return their electrical and electronic waste devices.

For details on how to return and dispose of electrical and electronic devices in an environmentally friendly manner, please refer to the manufacturer's declaration on our website. If you have any queries, suggestions, or questions about how Knick recycles electrical and electronic waste devices, please send us an email: → *support@knick.de*

1) Availability dependent on the ordered version → *Product Code, p. 9*

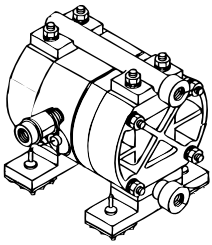
9 Spare Parts and Accessories

9.1 Accessories



ZU0601 Pipe-Mount Kit

For installation of the EPC730 on a horizontal or vertical pipe.



ZU0741 Chemical Pump

Note: Control valve 3/2 pneumatic valve required.

The chemical pump is used to pump cleaning agents that are not compatible with standard pumps made from PP and EPDM or Viton.



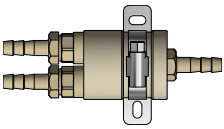
RV01 Check Valve

The RV01 Check Valve prevents the return flow of the process medium, calibration medium, cleaning medium, or rinsing medium into the inlet. The check valve is selected via a product code.

Check Valve		RV01	-	_	_	_	_
Material of housing, valve body	Stainless steel 1.4404			H			
	PEEK			E			
Material of seals	FKM				A		
	EPDM				B		
	FFKM				C		
	FKM-FDA				F		
	EPDM-FDA				E		
	FFKM-FDA				H		
Inlet connection, female thread	G¼″					4	
	G⅛″					8	
Outlet connection, male thread	G¼″						4
	G⅛″						8

ZU0876 Valve for Chemical Cleaners

Accessory ZU0876 is a valve and enables the control of chemical cleaners (diluted acids or bases) for cleaning sensors in fittings.

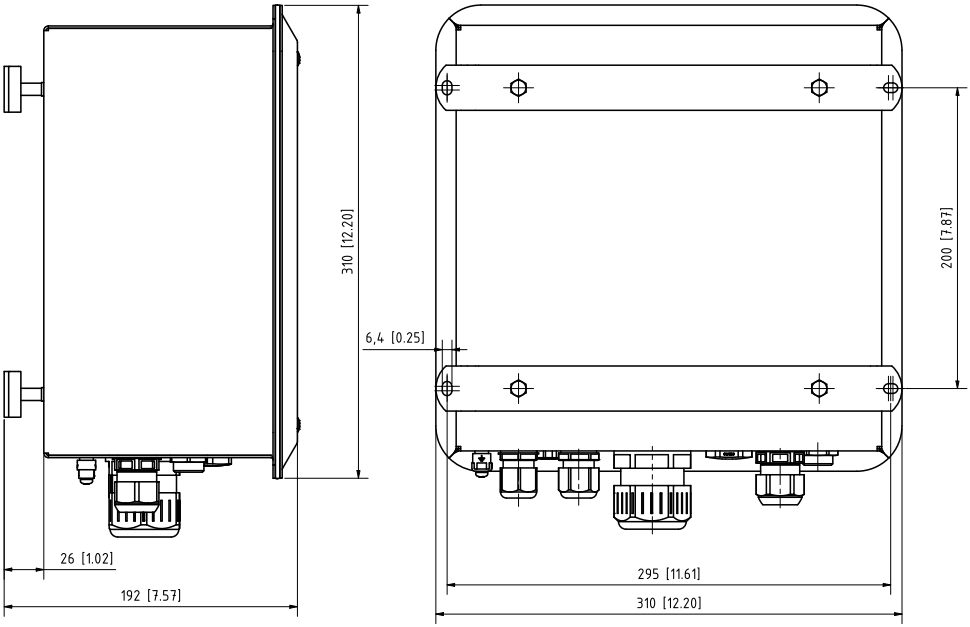


ZU1182 Connector for Rinsing Media

Accessory ZU1182 brings the hoses of two rinsing media together and forwards one of the rinsing media in a hose.

10 Dimension Drawings

Note: All dimensions are listed in millimeters [inches].



11 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	G¼″ female thread

Water Supply

Water quality	Filtered, 100 µm
Operating pressure	0.5 ... 16 bar (7.3 ... 232 psi)
Temperature	5 ... 80 °C (41 ... 176 °F)
Connection (at valve)	G¼″ female thread, connection nozzle for DN 6 hose

Electrical Power Supply

Operating voltage	24 V DC ± 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

Housing dimensions (W x H x D)	Approx. 310 × 310 × 193 mm (12.20 × 12.20 × 7.60″)
Weight	Approx. 6.1 kg
Material	Stainless steel A2, powder coated
Mounting	Wall or pipe mounting
Degree of protection in accordance with EN 60529 (mounted housing)	IP65

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

Notes

Knick
Elektronische Messgeräte
GmbH & Co. KG

Beuckestraße 22
14163 Berlin
Germany
Phone: +49 30 80191-0
Fax: +49 30 80191-200
info@knick.de
www.knick-international.com

Translation of the original instructions
Copyright 2025 • Subject to change
Version 1 • This document was published on July 18, 2025.
The latest documents are available for download on our website under the corresponding product description.

TA-300.662-KNEN01

102474