



Special Documentation

DPD analyzer module CA75

Maintenance booklet

Introduction

Note the maintenance instructions in the Operating Instructions for the analyzer. Only a properly maintained analyzer guarantees reliable measurement results. Documenting all the work carried out provides assurance both to the manufacturer in the case of warranty claims and to other departments and authorities.

Commissioning

Commissioning of the analyzer must be carried out by Endress+Hauser specialist staff.

Maintenance

Maintenance work on the analyzer can be carried out by Endress+Hauser specialist staff or by trained user personnel. For optimal maintenance of the analyzer, Endress+Hauser recommends signing a maintenance contract. Further information regarding maintenance contracts is available from your Endress+Hauser sales organization.

Measuring point and commissioning data**Customer data**

Customer	
Address	
Contact	
Site of operation	
Measuring point/TAG no.	

Device data

Order code	
Extended order code	
Serial number	
Function codes	

Commissioning data

Name	
Company	
Date	
Signature	

Maintenance information

Maintenance measures and maintenance intervals depend on many factors; for example, device type (parameter), measurement interval, ambient temperature. A general maintenance manual is therefore not possible. Please refer to the Operating Instructions for your analyzer for the maintenance measures currently required.

Maintenance kits for DPD analyzer module CA75

The contents of the maintenance kit depend on the version of the analyzer.

The maintenance materials are ordered via the order structure **CAV750**.

Orderstructure for CAV750 maintenance kit:

CAV750-	Parameter			
	AK	DPD; chlorine, 0-10 mg/l, CA75		
		Annual kit, number of years		
		1	1x (for 1 year of maintenance)	
			Enclosed accessories	
			PA	Reagent hose
			PB	Pump head
			PC	Inlet and outlet hoses
CAV750-	xx	xx	xx	Complete order code

The CAV750 maintenance kit contains all the parts required for the selected analyzer and selected maintenance period.

Consumables are not included in the CAV750 maintenance kit, please order separately:

- Order reagents using the CY75-AxSyTA product structure (x, y = specification).
- Order standard solutions using the CY75-AxSATE order structure (x= specification).
- Order cleaner using the CY800-AK22 order structure.

Product structure for CY75 maintenance kit (reagents and standard solutions):

CY75	Reagents and standard solutions		
	AK	Free chlorine, DPD method	
	AL	Total chlorine, DPD method	
		Reagent set	
		SA	None
		SC	1x 500 ml, ready-to-prepare 1x 500 ml, premixed, free chlorine
		SD	2 x 500 ml, ready-to-prepare, total chlorine
		Standard solution, concentration	
		TA	None
		TE	2 x 500 ml deionized water 150 mg/l Cl ₂ , 1x 15 ml

Documentation of maintenance work

The work must be documented separately since the various maintenance measures are carried out at different times.

- **Regular quarterly and annual maintenance according to the Operating Instructions:**
Document the regular quarterly and annual maintenance work on the indicated pages →  5 and below. Annual maintenance includes quarterly maintenance.
- **Needs-based maintenance, depending on chemical consumption and component wear:**
Documentation →  8 and →  9
- **Extraordinary measures such as software updates, device modifications, repair:**
Documentation →  10
- **Shelf life of consumables and operating life of maintenance material:**
Overview →  11
- **Confirmation of decommissioning of the measuring point:**
Documentation →  12
- **If a new maintenance booklet is required for the CA75**
A new maintenance booklet can be obtained either from the Endress+Hauser service department or by downloading it from the spare parts finding tool, stating the product root CA75, the complete order code or the serial number of the device (printout as a brochure in A4 format required):



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<https://sft-p.cdn.endress.com/>

Maintenance work without documentation

After commissioning of the CA75 has been completed, **no** zero adjustment needs to be performed.

Proof of regular maintenance**Quarterly maintenance carried out in accordance with the instructions in the Operating Instructions**

Date	
Name	
Signature	

Annual maintenance performed according to the instructions in the Operating Instructions

Date	
Name	
Signature	

Quarterly maintenance carried out in accordance with the instructions in the Operating Instructions

Date	
Name	
Signature	

Annual maintenance performed according to the instructions in the Operating Instructions

Date	
Name	
Signature	

Quarterly maintenance carried out in accordance with the instructions in the Operating Instructions

Date	
Name	
Signature	

Annual maintenance performed according to the instructions in the Operating Instructions

Date	
Name	
Signature	

Quarterly maintenance carried out in accordance with the instructions in the Operating Instructions

Date	
Name	
Signature	

Annual maintenance performed according to the instructions in the Operating Instructions

Date	
Name	
Signature	

Quarterly maintenance carried out in accordance with the instructions in the Operating Instructions

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Signature	

Annual maintenance performed according to the instructions in the Operating Instructions

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Quarterly maintenance carried out in accordance with the instructions in the Operating Instructions

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Quarterly maintenance carried out in accordance with the instructions in the Operating Instructions

Date	
Name	
Signature	

Annual maintenance performed according to the instructions in the Operating Instructions

Date	
Name	
Signature	

Quarterly maintenance carried out in accordance with the instructions in the Operating Instructions

Date	
Name	
Signature	

Annual maintenance performed according to the instructions in the Operating Instructions

Date	
Name	
Signature	

Proof of needs-based maintenance: reagents

 Note on completing the table:

Please do **not** use an “OK” sign (✓), but confirm the relevant fields with “**E+H**” if the reagents were ordered **directly** from Endress+Hauser sales.

Confirm the relevant fields with “**FA**” for deliveries from third-party suppliers, **even if the reagents are labeled “Endress+Hauser” or “E+H”**.

Date	Name	Abbreviation	Reagents		Standard
			RB	RK	

Proof of needs-based maintenance: wear parts

[illegible]

Proof of other measures (SW update, device modification, repair etc.)

Company and name	Abbreviation	Date	Description of measures

Overview of shelf life of consumables and range

CY75	Reagent				Standard ¹⁾	
	Order code	Shelf life of new reagents	Shelf life after mixing ²⁾	Theoretical range with 0.5 l ³⁾	Order code	For one-time use, shelf life 12 months
	CY75-AxSyTA	2 years	3 months	4 weeks @ 2.5 minutes.	CY75-AxSATE	

- 1) Manual on-site calibration is not recommended. All devices are factory-calibrated.
 2) From the day of mixing, the shelf life of a reagent mixture is limited by the reagent with the shortest shelf life.
 3) Valid for the measurement interval specified in this column. The interval is determined based on consumption or expiration time, whichever is shorter.

Overview of the shelf life of maintenance materials

The shelf life of maintenance materials depends on the operating conditions. These shelf lives are based on the factory settings (measuring interval of 2.5 minutes and calibration interval of 48 h) and determine the standard maintenance intervals. Specific operating conditions may affect the shelf life of the maintenance materials. In this case, the maintenance intervals must be adapted.

Cleaner			
Order code	Shelf life of a new cleaner	Shelf life after opening	Theoretical range with 50 ml ¹⁾
CY800-AK22	12 months	12 months	12 months

- 1) The cleaning interval depends on the operating conditions. The recommended cleaning interval is 1 month.

Proof of decommissioning

Decommissioning is carried out according to the instructions in the Operating Instructions. All chemicals are disposed of in accordance with requirements. Electrical cables are removed and/or protected against contact.

Company
Name
Date
Signature
Final disposition of the device
Comments