

ProFoss™2 Lateral Transmission Ø50, Ø68, Weld and Flat Probe

☒ On Site Maintenance
☐ Remote Maintenance

PM Interval	12 Months
PM Kit (P/N)	60095703 FOSS PM.Kit, ProFoss 2 SW LT
	60049069 FOSS PM.kit, ProFoss. Air system

Instrument Serial No.:
Date:

Introduction

A maintenance protocol provides a systematic and functional means of maintaining a specific instrument type. The certified performed PM interval depends on the operational conditions and is based on our extensive experience and knowledge of manufacturing and maintaining analytical instruments.

Apart from sample throughput, the environmental conditions also need to be taken into account. Demanding environments, such as high ambient temperature, humidity, dirtiness etc can measurably shorten component lifetime and also the maintenance and component replacement intervals.

Important

Before the visit, agree on a timing where the ProFoss 2 can be taken down without disturbing production together with the customer. If needed, bring along blind plates for the sample interface openings.

ANALYTICS BEYOND MEASURE

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Maintenance Procedures

Initial Actions

See the Service manual:

Action	OK
ISIScan Nova: Update ISIScan Nova to the latest version. Follow the upgrade procedure described on the software release note.	☐
Data Maintenance: In FossManager/Mosaic Solo check the data cleanup procedure, delete automatically should be enabled for both normal samples and other sample types, the interval should also be set to a reasonable time span. In ISIScan Nova check that the auto backup is enabled. In ISIScan Nova go to data maintenance and check the size of the database.	☐
FOSS Calibrations: In FossManager/Mosaic Solo check the version of the prediction model(s) used, check if there is a newer version (s) on Sharepoint. If there is a newer version on Sharepoint inform customer and the customer is willing, update the prediction model(s).	☐
Instrument Performance: From the Care menu, run Performance Test on both lamps.	☐
Prepare instrument: Switch off power to the ProFoss 2. The instrument may stay in place in the production line if it is not possible to remove, otherwise remove the process line interface and instrument from the process line. Remove the lid.	☐

Replacement of Parts - All lateral Transmission Probe Types

See the Spare parts manual:

Part / Module	Action	Qty	P/N	OK
Halogen lamps	Replace	2	6003 1462	☐
O-ring Ø017.00xØ1.00 NBR 70shore	Replace	1	0103 2298	☐
Tri clamp gasket EPDM 40MP-E-2 1/2"	Replace	1	6004 0404	☐

Replacement of Parts - Lateral Transmission Ø50

See the Spare parts manual:

Part / Module	Action	Qty	P/N	OK
O-ring Ø20.00/Ø1.50 EPDM 70	Replace	1	6009 3524	☐
O-ring Ø25.12/Ø1.78 EPDM 70	Replace	1	6009 3527	☐
O-ring Ø020.00/Ø2.50 FFPM 72 wht 3A	Replace	1	6005 6467	☐
O-ring Ø042.00/Ø3.00 FFPM 75 wht 3A	Replace	1	6005 6469	☐

Replacement of Parts - Lateral Transmission Ø68

See the Spare parts manual:

Part / Module	Action	Qty	P/N	OK
O-ring Ø20.00/Ø1.50 EPDM 70	Replace	1	6009 3524	☐
O-ring Ø25.12/Ø1.78 EPDM 70	Replace	1	6009 3527	☐
O-ring Ø020.00/Ø2.50 FFPM 72 wht 3A	Replace	1	6005 6467	☐
O-ring Ø060.00/Ø3.00 FFPM 72 wht 3A FCM	Replace	1	6005 6468	☐

Replacement of Parts - Lateral Transmission Weld Probe

See the Spare parts manual:

Part / Module	Action	Qty	P/N	OK
O-ring Ø20.00/Ø1.50 EPDM 70	Replace	1	6009 3524	☐
O-ring Ø25.12/Ø1.78 EPDM 70	Replace	1	6009 3527	☐
O-ring Ø020.00/Ø2.50 FFPM 72 wht 3A	Replace	1	6005 6467	☐

Replacement of Parts - Lateral Transmission Flat Probe

See the Spare parts manual:

Part / Module	Action	Qty	P/N	OK
O-ring Ø20.00/Ø1.50 EPDM 70	Replace	1	6009 3524	☐
O-ring Ø25.12/Ø1.78 EPDM 70	Replace	1	6009 3527	☐
O-ring Ø020.00/Ø2.50 FFPM 72 wht 3A	Replace	1	6005 6467	☐
O-ring Ø060.00/Ø3.00 FFPM 72 wht 3A FCM	Replace	1	6005 6468	☐

Replacement of Parts - (Optional Air Cleaner Filter Set)

See the Spare parts manual:

Part / Module	Action	Qty	P/N	OK
Replacement parts AMG-EL 150	Replace	1	6004 6531	☐
Replacement parts AMH-EL-150	Replace	1	6004 6530	☐
Air tube	Replace	x m	6004 6396	☐

Cleaning/Check of Process Line Interface

See the Service manual:

Action	OK
Sample window: Clean sample window and inspect for scratches and cracks. Replace if any cracks and if scratches or frosting is extensive.	☐
Clean the sample probe and its components	☐

Check of Mechanical Functions - Power Off

See the Service manual:

Action	OK
Optical Switch: Check that the large coq wheel can be turned freely with power off. Check for excessive dust build up on the large gear wheel.	☐
Optical Switch: Check the detector fiber for damage and make sure it is not twisted by the rotation of the switch.	☐
Optical Switch: Check the condition of the spring arm, there should be no damage to the arm.	☐
Lamp Switch: Check the ring light fiber, lamp switch motor wires and optical sensors for damage.	☐
Lamp Switch: Inspect the area were the gearwheel connects to the gear in the lamp house, if there are excessive amounts of brass dust clean the area. Loosen the screw for the motor and rotate it by hand, check the mechanical resistance when rotating the motor in both directions. Tighten the screw.	☐
Electrical connections: Check the function of the power connection block and the power cable for damage.	☐
LAN - connection: Check the internal LAN - connection and the external LAN - cable for damage.	☐
Ground wire: Check the internal and possible external ground wire is intact.	☐

Adjustments/Performance Validation

See the Service manual:

Action	OK
Warm-Up: Mount the lid. Note: mind the torque requirements of 6 nm for the screws for the lid.	☐

Action	OK
Connect power and LAN: Connect the power and network cable. Switch on the instrument and connect it to a PC with ERC Utility.	☐
ERC Remove the lid for the ERC, mount the ERC to the adapter. Mount the adapter with ERC to the instrument. Note: ensure the nut for the clamp is tightened so the ERC is fitted securely to the instrument	☐
ERC utility warm up test Start ERC utility and connect to the instrument. Start the warmup test. Note: it will take a long time for this test to pass, do not touch the probe while the test is running.	☐
ERC calibration Run the set ERC from the ERC utility to perform the measurement and apply the correction.	☐
ERC utility warm up test Change to the other lamp and start the warmup test, it is enough to wait 30 minutes then cancel the warmup test.	☐
ERC calibration Run the set ERC from the ERC utility to perform the measurement and apply the correction.	☐

Re-mount the Instrument

Action	OK
Mount the instrument	☐
Check the mounting bracket: Check that the mounting brackets for the ProFoss 2 are undamaged.	☐
Check function: Start the ProFoss 2 from the customer's PC and start ISIScan Nova, ensure it connects and passes the start-up test.	☐

Note: The total time is an approximate time. Depending on e.g. the current status and the accessibility of the instrument, this time might vary. Please round off to nearest quarter of an hour.

Total Time [Hours]
6.0

Customer representative:	Signature:
FOSS representative:	Signature: