

Technical Bulletin TB02/2016

## Suction Lances Version 4 and Compatibility to Reagent Tubes.

After recent feedback from the field SWAN developed and released a new version of suction lances.

With this release, SWAN also decided to refurbish part numbers and ordering system of tubing for all different SWAN analyzers equipped with suction lances and PeriClip pump.

Purpose of this technical bulletin is:

- to describe new lances setup
- to describe new lances configuration on instruments
- to list part numbers modified or phased out (and their replacement)
- to give information to prevent compatibility issues between lances and tubing kits

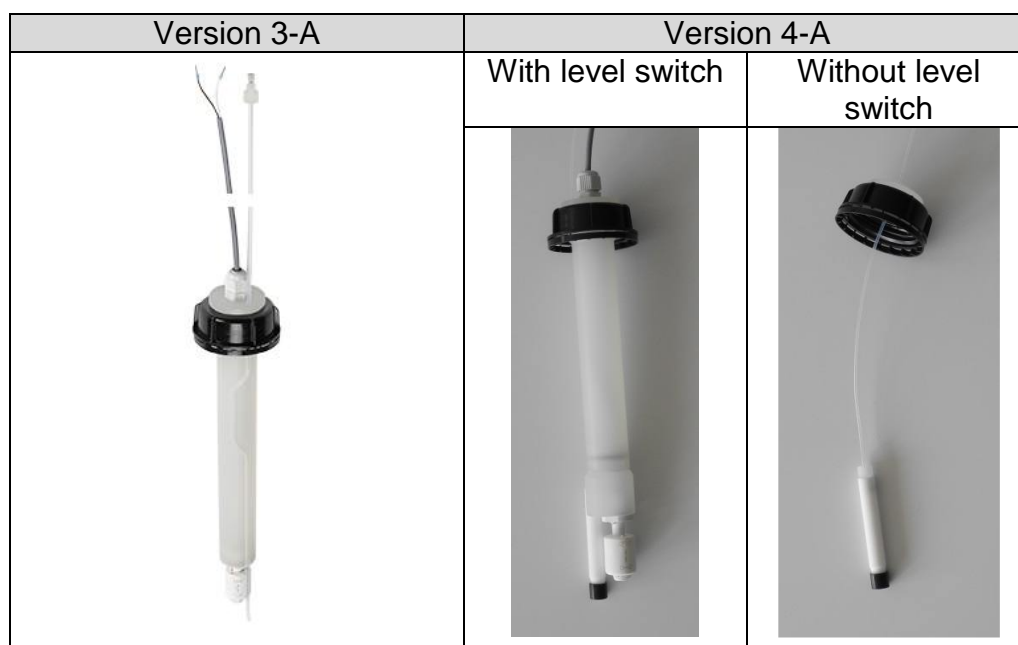
Instruments involved in this change are:

- AMI Codes – II
- AMI Codes – II CC
- AMI Codes – II TC
- AMI Phosphate – II
- AMI Phosphate HL
- AMI Silica
- AMI Silitrace
- AMI Silitrace Ultra
- Cleaning Module – II

## Suction Lances

The suction lance for 2,5l canisters have following versions:

Version	Modification	Connection Tubing
1-A	-----	Screw-nippel / flange
2-A	Tip made of FEP tube instead of steel tube	Screw-nippel / flange
2-B	New material of reed contact	Screw-nippel / flange
3-A	Body material made of PP-H (white) instead of PVC	Tube inserted directly
4-A	Two different suction lances with and without level switch. Body material made of PP-H, eccentric position of level switch, and filter holder. Single tube with filter holder	Tube inserted directly



Part number of suction lance with level detector remains as is **A-87.941.050**.

New part number for suction lance without level detector is **A-87.942.050**.

## Suction Lances on SWAN Instruments

In order to prevent any issue related to level switch SWAN decided to limit its use to essential needed to monitor reagent levels on each instrument.

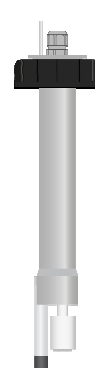
The table down below reports new configuration of suction lances for each SWAN analyzer

Analyzer	Canisters (from left to right)				Reagent filters needed
	1	2	3	4	
AMI Codes-II	A	B	n/a	n/a	No
AMI Codes-II TC	A	B	n/a	n/a	No
AMI Codes-II CC	A	B	B	n/a	No
AMI Phosphate-II	A	B	n/a	n/a	No
AMI Phosphate HL	B	n/a	n/a	n/a	No
AMI Silica	A	A	A	B	Yes
AMI Silitrace	A	A	A	B	Yes
AMI Silitrace Ultra	A	A	A	B	Yes
Cleaning Module-II	B	A	n/a	n/a	No

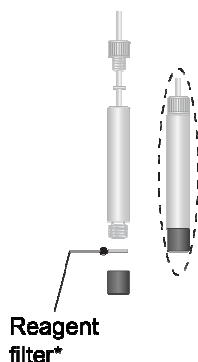
A:  
Suction lance without  
level detector  
A-87.942.050



B:  
Suction lance with  
level detector  
A-87.941.050



NOTE (1): All lances are delivered without filter disk inside the holder. Filter disks are needed only for silica analyzers (AMI Silica, AMI Silitrace, and AMI Silitrace Ultra) and they're delivered together with reagent sets.



After any reagent refill and/or lance replacement, filter disk must be replaced as shown in the picture

NOTE (2): If no issue with suction lance or level switch has been observed until now, no change of configuration is needed. Lance version and configuration has no link with versions of firmware and/or electronic boards.

## Tubing Kits

In order to refurbish ordering scheme of tubing kits for different analyzers, SWAN is going to organize it with a concept we defined “before and after the pump”.

Kit “before the pump” is a unique set of four tubes usable for all instrument equipped with suction lances: two versions of kit are available, for lances V1-A, 2-A, 2-B, and lances V3-A, 4-A respectively.

Part Number	Description	Compatibility
A-86.191.870	Tubing kit for suction lance; V1	Suction lances version 1-A, 2-A, 2-B
A-86.191.871	Tubing kit for suction lance; V2	Suction lances version 3-A, 4-A

Kit “after the pump” is dedicated tubing set specific for each instrument, so some existing kits have been adapted, and other kits created to fit in different analyzers or group of similar analyzers.

Part Number	Description	Compatibility	
A-86.191.890	Tubing kit reagent AMI Codes-II and AMI Phosphate-II	<ul style="list-style-type: none"> <li>- AMI Codes-II</li> <li>- AMI Codes-II TC</li> <li>- AMI Codes-II CC</li> <li>- AMI Phosphate-II</li> <li>- AMI Phosphate HL</li> </ul>	Items created to replace phased out kits
A-86.191.891	Tubing kit reagent AMI Silica	- AMI Silica	
A-86.191.042	Tubing kit for Cleaning Module-II	- Cleaning Module-II	
A-86.191.889	Tubing kit reagent AMI Silitrace	<ul style="list-style-type: none"> <li>- AMI Silitrace</li> <li>- AMI Silitrace Ultra</li> </ul>	Items modified in content and price: removed tubing for lances

Following articles are phased out

Part Number	Description
A-86.191.040	Tubing kit for Cleaning Module-II; V1
A-86.191.041	Tubing kit for Cleaning Module-II; V2
A-86.191.881	Tubing kit reagent AMI Codes-II(-TC, -HC), AMI Phosphate-II(-Boiler); V1
A-86.191.882	Tubing kit reagent AMI Codes-II CC; V1
A-86.191.883	Tubing kit reagent AMI Silica; V1
A-86.191.886	Tubing kit reagent AMI Codes-II(-TC, -HC), AMI Phosphate-II(-Boiler); V2
A-86.191.887	Tubing kit reagent AMI Codes-II CC; V2
A-86.191.888	Tubing kit reagent AMI Codes-II CC; V2