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Product: Aspirating smoke detector Component: SecuriSmoke ASD 2000 Topic: Modernisation - Compatibility	AI number	AI 41	
	Ref:	Modernisation SecuriSmoke ASD compatibility list_TONAG	
	Date / Initials	23/06/2025 / Sck	

Modernisation and compatibility documentation for ASD 5xx with ASD 2000

Most existing systems can be modernised using the table below. As a manufacturer, we recommend ensuring compliance with the applicable standard using the SecuriSmoke PipeFlow planning software wherever possible.

When taking over the existing pipework, it is important that cleaning is carried out beforehand as described in the ASD 2000 technical documentation. As soon as adjustments must be made to the pipe network or projects are involved that are operated close to the system limit of the ASD 535-x, conformity with the applicable standard should always be sought.

The current Release 3.0 version only allows connection via relay contacts. There is currently no modernisation solution for existing systems with an SLM 535 / XLM 535 connection.

Modernisation of existing systems ASD 535-x

Existing system	Modernisation
Aspirating smoke detector ASD 535-1 / -3 Smoke detector 1 x SSD 535-x 	Aspirating smoke detector ASD 2001 Smoke detector 1 x SSD 10x0  <u>Procedure for inventory protection:</u> - Take over (clean) the suction pipe - Note higher power consumption - Replacing the aspirating smoke detector - Multiply the previously set alarm threshold by a factor of 0.7 and set - Set fan speed to 15,000 rpm - If PipeFlow calculation is available, check the plausibility of the transport time and reduce the fan speed if necessary. <u>Procedure for EN 54-20 conformity:</u> - Recalculate the intake pipe with SecuriSmoke PipeFlow - Note higher power consumption - Replacing the aspirating smoke detector - Set alarm threshold according to SecuriSmoke PipeFlow calculation
Aspirating smoke detector ASD 535-2 / -4 Smoke detectors 2 x SSD 535-x 	Aspirating smoke detector ASD 2002 Smoke detectors 2 x SSD 10x0  <u>Procedure for inventory protection:</u> - Take over (clean) the suction pipe - Note higher power consumption - Replacing the aspirating smoke detector - Multiply the previously set alarm threshold by a factor of 0.7 and set - Set fan speed to 15,000 rpm - If PipeFlow calculation is available, check the plausibility of the

	transport time and reduce the fan speed if necessary. <u>Procedure for EN 54-20 conformity:</u> - Recalculate the intake pipe with SecuriSmoke PipeFlow - Note higher power consumption - Replacing the aspirating smoke detector - Set alarm threshold according to SecuriSmoke PipeFlow calculation
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Successor for SSD 535-x

SSD 535-x (stock)	SSD 10x0 (modernisation)
	
SSD 535-1 (0.5 - 10 %/m)	SSD 1010 (0.5 - 30 %/m)
SSD 535-2 (0.1 - 10%/m)	SSD 1020 (0.1 - 30 %/m)
SSD 535-3 (0.02%/m - 10%/m)	SSD 1030 (0.01 - 30 %/m)

Modernisation of existing systems < 2008

Existing system	Modernisation
Aspirating smoke detector Smoke detector ASD 515-1 1 x ORM-140 R (1.825 %/m) or 1x SSD 515-1 / -2 / -3 (1.8 / 1.0 / 0.3 %/m) 	Aspirating smoke detector Smoke detector ASD 2001 1 x SSD 10x0 <u>Procedure for inventory protection:</u> - Take over (clean) the suction pipe - Note higher power consumption - Replacing the aspirating smoke detector - Multiply the alarm threshold of the ORM-140 R or SSD 515-x used by a factor of 0.7 and set it - Set fan speed to 15,000 rpm <u>Procedure for EN 54-20 conformity:</u> - Recalculate the intake pipe with SecuriSmoke PipeFlow - Note higher power consumption - Replacing the aspirating smoke detector - Set alarm threshold according to SecuriSmoke PipeFlow calculation 
Aspirating smoke detector Smoke detectors ASD 515-2 2 x ORM-140 R (1.825 %/m) or 2x SSD 515-1 / -2 / -3 (1.8 / 1.0 / 0.3 %/m) 	Aspirating smoke detector Smoke detectors ASD 2002 2 x SSD 10x0 <u>Procedure b. Inventory protection:</u> - Take over (clean) the suction pipe - Note higher power consumption - Replacing the aspirating smoke detector - Multiply the alarm threshold of the ORM-140 R or SSD 515-x used by a factor of 0.7 and set it - Set fan speed to 15,000 rpm <u>Procedure b. EN 54-20 conformity:</u> - Recalculate the intake pipe with SecuriSmoke PipeFlow - Note higher power consumption - Replacing the aspirating smoke detector 

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		- Set alarm threshold according to SecuriSmoke PipeFlow calculation			
Aspirating smoke detector Smoke detector 		Aspirating smoke detector Smoke detector  ASD 516-1 1 x SSD 516-1 (1.2 %/m) or 1 x SSD 516-2 (0.6 %/m) or 1 x SSD 516-3 (0.3 %/m) ASD 2001 1 x SSD 10x0 <u>Procedure b. Inventory protection:</u> - Take over (clean) the suction pipe - Note higher power consumption - Replacing the aspirating smoke detector - Multiply the alarm threshold of the SSD 516-x used by a factor of 0.7 and set it - Set fan speed to 15,000 rpm <u>Procedure b. EN 54-20 conformity:</u> - Recalculate the intake pipe with SecuriSmoke PipeFlow - Note higher power consumption - Replacing the aspirating smoke detector - Set alarm threshold according to SecuriSmoke PipeFlow calculation			
Aspirating smoke detector Smoke detectors 		Aspirating smoke detector Smoke detectors  ASD 516-2 1 x SSD 516-1 / 516-2 / 516-3 and 1 x SSD 515-1 / 515-2 / 515-3 ASD 2002 2 x SSD 10x0 <u>Procedure b. Inventory protection:</u> - Take over (clean) the suction pipe - Note higher power consumption - Replacing the aspirating smoke detector - Multiply the alarm threshold of the SSD 515-x or SSD 516-x used by a factor of 0.7 and set it - Set fan speed to 15,000 rpm <u>Procedure b. EN 54-20 conformity:</u> - Recalculate the intake pipe with SecuriSmoke PipeFlow - Note higher power consumption - Replacing the aspirating smoke detector			

	- Set alarm threshold according to SecuriSmoke PipeFlow calculation
Aspirating smoke detector Smoke detector  ASD 516-3 1 x SSD 516-1 (1.2 %/m) or 1 x SSD 516-2 (0.6 %/m) or 1 x SSD 516-3 (0.3 %/m)	Aspirating smoke detector Smoke sensor  ASD 2001 1 x SSD 10x0 <u>Procedure b. Inventory protection:</u> - Take over (clean) the suction pipe - Note higher power consumption - Replacing the aspirating smoke detector - Multiply the alarm threshold of the SSD 516-x used by a factor of 0.7 and set it - Set fan speed to 15,000 rpm <u>Procedure b. EN 54-20 conformity:</u> - Recalculate the intake pipe with SecuriSmoke PipeFlow - Note higher power consumption - Replacing the aspirating smoke detector - Set alarm threshold according to SecuriSmoke PipeFlow calculation
Aspirating smoke detector Smoke detectors  ASD 516-4 1 x SSD 516-1 / 516-2 / 516-3 and 1 x SSD 515-1 / 515-2 / 515-3	Aspirating smoke detector Smoke detectors  ASD 2002 2 x SSD 10x0 <u>Procedure b. Inventory protection:</u> - Take over (clean) the suction pipe - Note higher power consumption - Replacing the aspirating smoke detector - Multiply the alarm threshold of the SSD 515-x or SSD 516-x used by a factor of 0.7 and set it - Set fan speed to 15,000 rpm <u>Procedure b. EN 54-20 conformity:</u> - Recalculate the intake pipe with SecuriSmoke PipeFlow - Note higher power consumption

	- Replacing the aspirating smoke detector - Set alarm threshold according to SecuriSmoke PipeFlow calculation
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