



AirSense ASD pipework catalogue

The right connections

A comprehensive range of non-toxic red ABS pipe and fittings for aspirating smoke detection systems





The AirSense technology range of pipe fittings and accessories enables the installer to provide efficient, robust and unobtrusive aspirating smoke detection sampling systems over a wide range of applications.

The outstanding physical properties of ABS make it ideal for almost every project whilst the red colour and clear markings ensure the air sampling network is easily identifiable from other services.

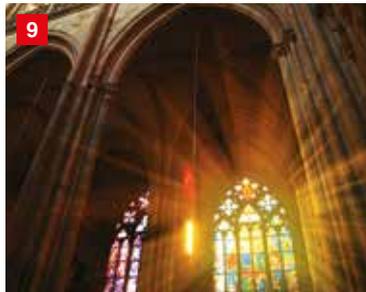
Our sampling pipe has been tested by the Loss Prevention Certification Board in the UK and is LPCB approved for use in conjunction with our Stratos-HSSD systems. As part of EN54-20(CPR), sampling pipe which is tested to EN61386-1 must be used to create a fully EN54-20 compliant installation. This is fundamental to ensure a well functioning and robust aspirating smoke detection system.

Our range of standard equipment has grown in response to the needs of our clients. For those installations having special physical or architectural requirements, please contact us to discuss your requirement.



The range of pipe, fittings and accessories illustrated in this brochure have been installed in many different applications worldwide. Some examples are:

1. Freezer warehouses/cold stores
2. Paper mills
3. Aircraft hangars
4. Computer rooms
5. Historic buildings
6. Air ducts
7. Prisons and other restricted access areas
8. Telecommunications areas
9. Churches and cathedrals
10. Warehouses
11. Food processing areas
12. Drug manufacturing areas
13. Power distribution areas
14. Atriums





Sampling pipe & fittings

	SKU	Description	Detailed description
	9-10900	Pipe – red, ABS, 3/4", 3 m	ABS pipework for use with Aspirating Smoke Detection systems. 3/4" outside diameter the pipework complies with the requirements of EN61386-1. Pipework is red colour and provided in 3 m lengths.
	9-10905	45Deg Elbow – red, ABS, 3/4"	Pipe fitting for use with 3/4" aspirating detection pipe. The 45 degree elbow provides a 45 degree deviation of a pipework run enabling negotiation of pipework around obstacles. ABS material, complies with the requirements of EN61386-1, colour – red
	9-10906	90° Bend – red, ABS, 3/4"	Pipe fitting for use with 3/4" aspirating detection pipe. The 90 degree elbow provides a right angle deviation of a pipework run enabling negotiation of pipework around obstacles. ABS material, complies with the requirements of EN61386-1, colour – red
	9-10909	T-piece – red, ABS, 3/4"	Pipe fitting for use with 3/4" aspirating detection pipe. The 'T' piece allows a single pipe run to be split into two pipe runs. ABS material, complies with the requirements of EN61386-1, colour – red. Important! The use of 'T' pieces is restricted in aspirating pipework design please refer to manuals etc.
	9-10908	Socket – red, ABS, 3/4"	Pipe fitting for use with 3/4" aspirating detection pipe. The socket allows sections of pipe to be joined together to make a longer pipe run. ABS material, complies with the requirements of EN61386-1, colour – red
	9-10927	End cap – red, ABS, 3/4"	Pipe fitting for use with 3/4" aspirating detection pipe. All pipe runs must be terminated with an end cap. ABS material, complies with the requirements of EN61386-1, colour – red
	9-10915	Socket union – red, ABS, 3/4"	Pipe fitting for use with 3/4" aspirating detection pipe. The Union socket is a two piece screw together joint to connect two pieces of pipework. The socket can be unscrewed allowing disconnection of the pipework sections. ABS material, complies with the requirements of EN61386-1, colour – red
	1-21888-K076	Flexible connector – 3/4", 1 m long	Installation accessory for use with 3/4" aspirating detection pipe. The flexible connector consists of two 3/4" sockets and a 1 m section of flexible 3/4" pipe. Provides a flexible 1 m joint for two pieces of 3/4" aspirating detection pipe. Suitable for negotiating small obstructions or can be used to provide an expansion joint in applications where pipework may expand and contract due to temperature.



Remote sampling point assemblies

	SKU	Description	Detailed description
	9-10925	Standard sampling point assembly – fixed	Capillary sample point kit comprising a 'T' piece, 10 mm flexible capillary and sample point. This can be fitted in-line with the main pipework allowing the sample point to be remote from the main sampling pipe. Suitable for use when pipework is installed in void and sampling hole needs to be within the protected risk area providing discrete detection.
	9-10945	Standard sampling point assembly – removable	As the 9-10925 except this variant has a detachable sampling point arrangement which allows the capillary tube to be removed from the sampling point for cleaning etc.
	9-10928	Pattress sampling point assembly	As the 9-10945 with the additional of a flat circular pattress plate which sits behind the sampling point providing two fixing screw points
	9-10947	90° Pattress sampling point assembly	As the 9-10928 with a right angle push fitting attached to the sample point allowing the flexible capillary tube to be inserted at a right angle to the sampling point. This can provide a solution where space restricts vertical entrance of the capillary tube to the sampling point.
	9-10918	Discrete sampling point assembly – red	As the 1-21888-K074 with the sampling point arrangement replaced by a sampling point cap (1-21888-K068) which fits over the end of a flexible capillary tube to provide a very discrete sampling point almost invisible.
	9-10921	Discrete sampling point assembly – clear	As the 9-10945 with the sampling point arrangement replaced by a sampling point plug (9-10914) which pushes directly into the end of the capillary tube.
	9-10916	Bulkhead sampling point assembly	As the 9-10945 with a bulkhead sampling point type fitting for mounting the sampling point through a metal bulkhead or wall of a metal equipment cabinet. The bulkhead sampling point is provided with a sampling point plug (9-10914) which pushes into the bulkhead sampling point and can be drilled with the correct hole size.
	1-21888-K074	Flush sampling point assembly	Capillary sample point kit comprising a 'T' piece, 10 mm flexible capillary and flush mount sampling point. This can be fitted in-line with the main pipework allowing the sample point to be remote from the main sampling pipe. Suitable for use when pipework is installed in void and sampling hole needs to be within the protected risk area providing discrete detection. The flush kit provides a flat circular disc which provides a discrete sample point.
	1-21888-K075	Conical sampling point assembly	As the 1-21888-K074 with the sampling point arrangement replaced by a conical sampling point. The conical kit provides a disc with a conical section which provides a sampling point which is 25 mm below the mounting surface.
	9-10955	Test Point sampling point assembly	As the 1-21888-K074 with the sampling point arrangement replaced by a test point. The cap of the test point can be removed and smoke can be introduced at the test point opening. This is normally done during routine maintenance to test that the systems is still performing as designed.
	9-10956	Test Point sampling point assembly – end cap	As the 9-10955 with the 3/4" T-piece replaced by a 3/4" end cap adaptor.



Remote sampling point components

	SKU	Description	Detailed description
	9-10913	Bulkhead sampling point	A replacement sampling point section for use with 9-10916
	9-10914	Discrete sampling point	Small plastic insert which pushes directly into the end of the capillary tube to provide a very discrete sampling point almost invisible.
	1-21888-K068	Discrete sampling point	Small plastic cap which fits over the end of a flexible capillary tube to provide a very discrete sampling point almost invisible.
	9-10919	Pattress sampling point	A replacement sampling point section for use with 9-10928
	9-10944	90° Pattress sampling point	A replacement sampling point section for use with 9-10947
	9-10943	Standard sampling point	A replacement sampling point section for use with 9-10945 In-line sampling point assembly
	9-10930	3/4" – 10 mm compression inline adaptor	Inline adaptor which can be used with any 3/4" pipe fitting to allow connection of 10 mm capillary tube to main pipework. Can be used to create own design sample point or repair existing sampling points. Provides a 10 mm push fitting for easy connection of capillary tube.
	9-10922	3/4" – 10 mm compression end cap adaptor	End cap adaptor which can be used with any 3/4" pipe fitting to allow connection of 10 mm capillary tube to main pipework. Can be used to create own design sample point or repair existing sampling points. Provides a 10 mm push fitting for easy connection of capillary tube.
	9-10963-100	Red 10 mm capillary pipe – 100 m	10 mm flexible capillary tube, red – 100 m reel A reel of capillary tubing that can be used to construct own capillary sampling points or repair existing sampling points.
	9-10964-100	Natural 10 mm capillary pipe – 100 m	10 mm flexible capillary tube, natural – 100 m reel A reel of capillary tubing that can be used to construct own capillary sampling points or repair existing sampling points.



Adaptors

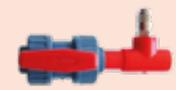
	SKU	Description	Detailed description
	9-10931	3/4"(F)-25 mm(F) adaptor – red, ABS	Pipe fitting for use with 3/4" aspirating detection pipe. This socket allows 3/4" and 25 mm pipework to be connected together. ABS material, complies with the requirements of EN61386-1, colour – red
	9-10946	3/4"(F)-25 mm(M) adaptor – red, ABS	Pipe fitting for use with 3/4" aspirating detection pipe. The adaptor allows 3/4" pipework to be used with 25 mm pipe fittings. ABS material, colour – red
	9-10952	25 mm(F)-3/4"(M) adaptor – red, ABS	Pipe fitting for use with 3/4" aspirating detection pipe. The adaptor allows 25 mm pipework to be used with 3/4" pipe fittings. ABS material, colour – red

Fixings and accessories

	SKU	Description	Detailed description
	9-10954-25	Pipe clip – red – pack of 25	Pipe clip for mounting of 3/4" pipework – pack of 25 Note: Pipework should be supported approx. every 1.5 m, pipework bends should be located with 2 clips, one clip should be placed either side of the bend.
	9-10954-100	Pipe clip – red – pack of 100	Pipe clip for mounting of 3/4" pipework – pack of 100 Note: Pipework should be supported approx. every 1.5 m, pipework bends should be located with 2 clips, one clip should be placed either side of the bend.
	9-10973-25	M6 Raw plug plus nut – pack of 25	M6 raw plug plus nut for simplified installation of pipe clips (9-10954-xx). The M6 raw plug is secured in the ceiling, after drilling a suitable hole. The nut is then slid into a specially designed slot in the base of the clip, after which the clip simply screws onto the protruding threaded section of the rawl plug. Pack of 25 nuts and 25 M6 raw plugs.
	9-10936-25	Pipe clip stand-off – red – pack of 25	Consists of a standard pipe clip, threaded rod and mounting bracket. The pipe stand off support locates the pipework away from the mounting surface i.e. suspends the pipework from the ceiling. Suitable for mounting pipework to uneven surfaces. Pack of 25
	9-10933	Hole repair saddle	Accessory for use with 3/4" aspirating detection pipe. A plastic saddle which can be glued over unwanted sample holes, generally used when modifying a pipe network design especially when retrofitting ASD units to existing pipework. ABS material, colour – red
	9-10960	Sampling point labels – 100	Provides identification and warning notification for sample points drilled directly into aspirating detection pipe, Label is designed to place around the sampling hole. 100 labels per reel.
	9-10950	ABS cement 250 ml	(Shipment in UK only). All pipework joints must be glued together to ensure integrity. A 250 ml tube of solvent cement will provide enough for approx. 170 joints.



Fixings and accessories (continued)

	SKU	Description	Detailed description
	9-10951	Pipe cleaner 500 ml	(Shipment in UK only) Prior to gluing pipe joints pipework and fittings must be cleaned to ensure a good seal.
	1-21888-K063	Harsh environment external filter	The filter is used to limit the contamination to the detector when installed in dirty and dusty environments. The unit is supplied with union sockets to allow it to be used with 25 mm and 3/4" pipework. Foam elements inside the unit can easily be replaced as necessary.
	1-21888-K064	Replacement external filter element for external filter	For use with the 1-21888-K063
	9-30422	Air heater for freezer applications	The Air Heater Box is designed to raise the temperature of the air drawn from a very cold environment by passing it across a heating element before it passes into the detector. Warming the air sample will also ensure the components of the detector operate within the specified temperature tolerances, and it reduces the possibility of surface condensation.
	9-10974	Watertrap	It is key to remove the condensation from the sampling pipe network before it enters the detector, a watertrap is used for this purpose. This is a complete watertrap assembly, which is supplied already assembled.
	9-10967	Pipe cutters	For use with 3/4" aspirating detection pipework
	9-10975	25 mm-32 mm intumescent fire collar	Intumescent fire collars are designed to maintain the fire resistance of compartment walls and floors where they are penetrated by air sampling pipes. The steel shell construction contains a heat reactive graphite based intumescent material, which on exposure to heat from a fire will rapidly expand inwards to squeeze the collapsing plastic pipe until the aperture is completely sealed.
	9-10976	Quick release airline valve	The quick release airline valve is installed close to the detector. During maintenance the detector can be switched-off and the valve closed to prevent any damage to the detector during the clearing process. The low pressure compressed air can then be easily connected to the quick release and the sampling pipe network cleaned. For use with 9-10978 or 9-10980.
	9-10978	3/4" large check valve	The check valve is installed at the far end of the sampling pipe network, where typically an end cap would be installed. It will automatically open to release excess air pressure during the cleaning process, and does not require any human interaction. For use with 9-10976.
	9-10980	3/4" large 2 way ball valve	The ball valve can sit in the line of the aspirating detection and provides a mechanical method of closing the airflow path by operating the red handle. This can be used to close the airflow path to the detector during maintenance of the pipe network.



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