Airtec tube - Compressed breathing air detector tubes

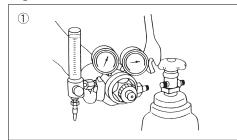
Gas or Vapour to be Measured Carbon monoxide	Chemical Formula		Tube No. & Name	Measuring Range	Flow Rate	Sampling Time	Colour Change		Shelf Life (year)
				(ppm)	(mL/min)	(min)	Original	Stain	
		1A	Carbon monoxide Airtec tube	5-50	100	3	Yellow	Blackish brown	2
Carbon dioxide	CO2	2A	Carbon dioxide Airtec tube	250-3000	100	5	Yellowish orange	Yellow	2
		2Ag	Carbon dioxide Airtec tube	200-3000	100	1.5	Pale blue	Purple	3
Water vapour	H2O	6AH	Water vapour Airtec tube	500-5000	300	1	Green	Purple	2
		6A	Water vapour Airtec tube	10-80mg/m ³	100	5	Yellow	Green	2
		6Ag	Water vapour Airtec tube	150-3000mg/m ³	300	1	Green	Purple	2
Nitrogen oxides	NO+NO2	11A	Nitrogen oxides Airtec tube	0.06-2	100	2	White	Bluish green	3
				0.02-0.7	100	5			
Oil mist		109AD	Oil mist Airtec tube	0.2-5.0mg/m ³	1000	20	Pale vermilion	Pale blue	2
		109A	Oil mist Airtec tube	0.3-1.5mg/m ³	1000	60	White	Greenish brown	2

Gastec Airtec Tube allows anyone to simply, quickly, and quantitatively measure the quality of their compressed breathing air. Easy to use, the Airtec tube is an accurate and precise method for detecting CO, CO₂, Water vapour, Nitrogen oxides and Oil mist. Using Airtec tube direct reading vapour tubes, simply connect the pressure reducer to your high pressure air source, compressor, cylinder, or air line and adjust the flowmetre to the required setting.

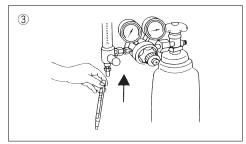
When self-contained breathing apparatus or other devices are used for respiratory protection, the quality of the breathing air requires special attention. Contaminants entering the compressor or contaminants generated by the compressor can be harmful to the worker and the respiratory equipment.

Measurement procedure: (a case of contaminant test in cylinder)

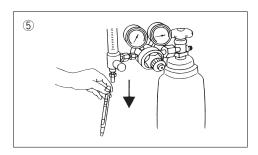
1. Attach a pressure reducer with gauge and flow metre to a cylinder, compressor or air line and adjust the flow metre to the required setting.



3. Attach the rubber tube holder to the flow metre outlet. Make sure the tube arrow G► on the tube is pointing in the downward direction.

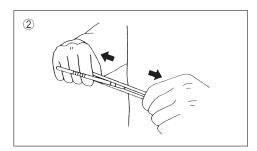


5. Time the sampling with a stopwatch.

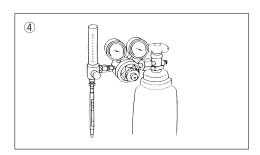


Airtec tube is a convenient economical system for testing the quality of your compressed breathing air. You do not have to learn how to operate and calibrate sophisticated instrumentation. With Airtec Tube, the measurement is quick and simple and does not require user calibration. Just snap off both "break away" ends of the tube, insert the tube into the tube holder with the directional arrow pointing down, and adjust the flowmetre to the specified flow rate. After the required time, note where the colour stain stops and take the measurement from the direct reading tube.

2. Break the tips off a fresh detector tube using the tube tip breaker and insert the tube into a tube holder.



4. Turn on the cylinder or compressor and confirm the flow metre according to each Airtec tube specifications.



6. As soon as the sampling time has finished, turn off the cylinder or compressor, and remove the tube from the tube holder and then read the colour-changed layer immediately.



Compressed breathing air measurement kit (CG-1 System)

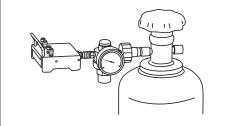
Gastec CG-1 system can simply, quickly, and simultaneously measure 4 kinds of harmful contaminants (CO, CO₂, Water vapour, and Oil mist) contained in compressed breathing air (cylinder or compressor).

Gas or Vapour to be Measured	Chemical Formula	Tube No. & Name		Measuring Range	Flow Rate (mL/min)	Sampling Time (min)	Colour Change		Shelf Life
			(ppm)				Original	Stain	(year)
Carbon monoxide	CO	1A	Carbon monoxide Airtec tube	5-50	100	5	Yellow	Blackish brown	2
Carbon dioxide	CO2	2A	Carbon dioxide Airtec tube	250-3000	190	5	Yellowish orange	Yellow	2
Water vapour	H20	6A	Water vapour Airtec tube	10-80mg/m ³	120	5	Yellow	Green	2
Oil mist		109AD	Oil mist Airtec tube	0.2-5.0mg/m ³	3000	10	Pale vermilion	Pale blue	2

Measurement procedure

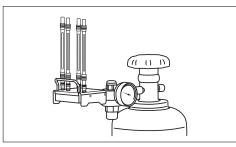
STEP.1

- 1. Connect the measuring device to the pressure reducer fully until it is locked. (Don't connect rubber shrouds)
- 2. Slowly open the compressed air supply and wait 1 minute.
- Close the compressed air supply completely, and wait 6 minutes.
- 4. Confirm the pressure drop is less than 5%.



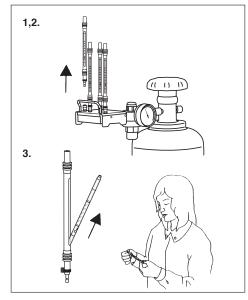
STEP.3

- 1. Slowly open the compressed air supply valve and clean the air supply system. (disperse compressed air)
- 2. Wait 5 minutes and close the valve.



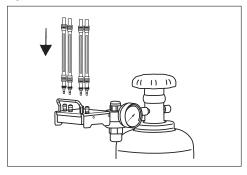
STEP.5

- 1. After 5 minutes, disconnect the three rubber shrouds(No.1A,2A, and 6A) from the measuring device.
- 2. After 10 minutes, disconnect the rubber shroud (No.109AD) from the measuring device.
- 3. Remove the tubes from the rubber shrouds, and read the value of each tube immediately.



STEP.2

1. With the main valve closed, connect each Rubber shroud to the measuring device fully until it is locked. (Air escapes from the measuring device)



STEP.4

- 1. Break off both tips of the Gastec tube with the tube tip holder.
- Set the Gastec tubes in the rubber shrouds according to the markings on the measuring device. Make sure that both ends of the tubes are firmly covered by the rubber shrouds.
- 3. Open the valve of the compressed air source to start the measurement. Time the sampling with the stopwatch.

