#6AH AIRTEC
WATER VAPOUR HIGH RANGE TUBE

1. General:
The AIRTEC Tube No. 6AH provides the measument of the concentration of Water Vapour in compressed air utilizing the sampling device, pressure reducer and air flow meter.

2. Performance:
Measuring Range: 500—5,000 ppm
Calibration Marks: 500, 1,000, 2,000, 3,000, 4,000 & 5,000 ppm
Colour Change: Green—Purple
Sampling Volume: 300 ml
Sampling Rate: 300 ml per minute
Sampling Time: 1 minute
Shalf Life: 2 years

3. Measurement Procedure:
1. Connect the clean pressure reducer to the air compressor or compressed air cylinder.
2. Fill the pressure reducer with air to be tested.
3. Break tips off the AIRTEC tube and connect the tube into rubber tube holder that the sample air to be flowed through the arrow of the tube.
4. Open the pressure reducer and introduce the sample air to AIRTEC tube. Check the flow rate through the tube at 300 ml/minute.
5. Wait 1 minute.
6. After the sampling, read concentration at the interface of the highest stained reagent coloured dark brown.
7. If the stain length reaches the maximum cadibration mark during sampling, stop pressure reducer operation the true value by the following:

$$\text{True Concentration (mg/m}^3\text{)} = \frac{\text{Tube Reading x 300}}{\text{Sampled Volume (liters)}}$$

4. Correction for Temperature and Humidity:
No correction is requid for tube temperature of 0—40°C.

5. Detecting Principle:
Water Vapour is adsorbed by magnesium perchlorate to produce an alkaline which changes the color of Hammett indicator to purple.

$$H_2O + Mg(ClO_4) \longrightarrow Mg(ClO_4)_2 \cdot H_2O$$

SEE OPERATING INSTRUCTIONS INCLUDED WITH THE AIRTEC KIT.

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