E+E dew point sensor in thin-film technology

ECEFastNZLtd

Dew point

What is dew point?

The atmospheric temperature (varying according to pressure and humidity) below which water droplets begin to condense and dew can form. In technical terms, the dew point is the temperature at which the water vapor in a sample of air at constant barometric pressure condenses into liquid water at the same rate at which it evaporates. At temperatures below the dew point, the rate of condensation will be greater than that of evaporation, forming more liquid water. Dew point temperature is never greater than the air temperature because relative humidity cannot exceed 100%. The measurement of the dew point is related to humidity. A higher dew point means there will be more moisture in the air.

Facts about dew and fog: The condensed water is called dew when it forms on a solid surface. The condensed water is called either fog or a cloud, depending on its altitude, when it forms in the air.

What are the differences between EE35, EE371, EE335 and EE354?

"The maximum gap between the temperature and dew point is 80°C. i.e. if the dew point (Td) is -40°C, the temperature should not be higher than 40°C. The working temperature range of the probe is -40°C … +60°C"




links to website	**EE35**	**EE371**	**EE355**	**EE354**
Measuring range Dew point Td Frost Tf ppm Wv Temperature T	 -60...60 °C Yes **0...60 °C**	 -60...60 °C Td Yes **20...200,000 ppm**	 -60...60 °C Td Yes **20...200,000 ppm**	 -20...50 °C Td Yes
Accuracy	±2 °C Td; ±0.2 °C	±2 °C Td	±2 °C Td	±1 °C Td
Outputs	0-5/10V, 0/4-20mA	**T model:** 0-1/5/10 V, 0/4-20 mA **S model:** 2 alarm (relay) outputs only	Modbus RTU and 4-20mA	Modbus RTU and 4-20mA
Pressure range	0...20bar		**0...80bar**	
Output parameters	Any 2 of the following: Dew point Td, Frost point Tf, Temperature T	Any 2 of the following: Dew point Td, Frost point Tf, ppm volume, concentration Wv	Any 1 of the following: Dew point Td, Frost point Tf, ppm volume, concentration Wv	Any 1 of the following: Dew point Td, Frost point Tf
Power supply	24V AC/DC	10-30 V DC	18-28 V DC	10-28 V DC
Options	Relay output **Display**	Analogue or Relay output, **Display**		
Accessories	Ball valve, Metal/polycarbonate housing cover, Sampling cell, SS sintered filter			
Main feature	low dew point temperature in applications such as drying processes or compressed air monitoring	low dew point measurement in compressed air systems, dryers for plastic and other industrial processes	compressed air systems, plastic dryers and industrial drying processes	compressed air monitoring, Refrigeration dryer

Check the prices by clicking the model numbers. Talk to us for more options and technical support.

9A, 9-11 Laidlaw way, East Tamaki, Auckland 2019, New Zealand
+64 (09) 2620106 / 2620206, Toll free call: 0800 323 327 sales@ecefast.co.nz www.ecefast.co.nz