

Dewpointer®



Dew points of gases are determined quickly and accurately with the Alnor Dewpointer. This instrument is especially suitable for testing gases with low moisture content. It is completely portable, easy to operate and extremely reliable. Readings are reproducible and easily translated to relative humidity, parts per million, pounds per 1000 cubic feet, or other appropriate engineering measurements.

Dewpointers can also be provided with Americium to increase accuracy, allow for readability to -80°F , and minimize variability of gas samples.

Dewpointer applications include air dryers, heat treating furnaces, welding operations, natural gas transmission and any other application where the dryness of air or gas is critical. Five Dewpointer models are available.

General Industrial Model 7000-U

Model 7000-U is a general purpose Dewpointer suitable for measurements from 10° below ambient to -80°F (ambient less 10°C to -62°C).

General Industrial Model 7200-U

Model 7200-U is similar to Model 7000-U, but is for use with gases already under pressure (minimum 60 PSIG).

Laboratory Precision Model 7300

Model 7300 is similar to General Industrial Model 7000-U, but features special refinements to permit more precise readings.

Laboratory Precision Model 7300-D

Model 7300-D is similar to Model 7300, but features four interchangeable scales that permit the operator to test gases without a calculator.

Laboratory Precision Model 7350

Model 7350 is similar to the other laboratory precision models, but also has the needle valve and over-pressure protection features of General Industrial Model 7200-U.

Americium Foil—Optional

The formation of a visible fog at the dew point temperature depends on the presence of particles in the gas to act as nuclei around which the droplets can form. In practically all cases, those particles are always present. In those cases where the gas to be analyzed is extremely clean (e.g., filtered through a molecular sieve), the Dewpointer can be ordered with an Americium foil of extremely low power (35 microcuries) to ionize the gas in the chamber and create an adequate level of nuclei.

Model Descriptions & Part Numbers

General Industrial Model 7000-U

Model 7000-U is the general purpose Dewpointer suitable for measurements from 10°F below ambient to -80°F (ambient less 10°C to -62°C).

It features:

- Liquid glass thermometer
- Double-acting pump
- Pressure ratio gauge with easy-to-read fluid
- Fog chamber with observation window
- 110V AC or 6V battery power

<u>Model</u>	<u>Part no.</u>
7000-U Ambient less 10° to -80°F	656-001-007
7000-U Ambient less 10° to -62°C	656-004-003

Laboratory Precision Model 7300

Model 7300 is similar to General Industrial Model 7000-U, but features special refinements to permit more precise readings.

- Precision resistance thermometer/galvanometer to give accurate initial temperature reading
- Longer pressure ratio gauge scale

<u>Model</u>	<u>Part no.</u>
7300 Ambient less 10° to -80°F	657-001-000
7300 Ambient less 10° to -62°C	657-003-000

Laboratory Precision Model 7300-D

Model 7300-D is similar to Model 7300, but it features four interchangeable scales that permit the operator to:

- Read dew points directly in degrees Fahrenheit (or Celsius) without a calculator
- Test air, oxygen, nitrogen, hydrogen, carbon monoxide and endothermic or exothermic gases without a calculator

<u>Model</u>	<u>Part no.</u>
7300-D Ambient less 10° to -50°F	657-002-005
7300-D Ambient less 10° to -45°C	657-004-006

General Industrial Model 7200-U

Model 7200-U is similar to Model 7000-U, but is for use with gases already under pressure (minimum 60 PSIG).

Special features:

- Inlet needle valve instead of a pump
- Built-in pressure relief valve and rupture disc to protect against over-pressures

<u>Model</u>	<u>Part no.</u>
7200-U Ambient less 10° to -80°F	658-001-002
7200-U Ambient less 10° to -62°C	658-004-009

Laboratory Precision Model 7350

Model 7350 is similar to other laboratory precision models, but also has the needle valve and over-pressure protection features of General Industrial Model 7200-U (minimum 60 PSIG).

<u>Model</u>	<u>Part no.</u>
7350 Ambient less 10° to -80°F	658-003-003
7350 Ambient less 10° to -62°C	658-006-000



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