

SUPER-DEW

An in-line *Shaw Moisture Meters* hygrometer for continuous moisture / dewpoint definition with alarm and process control outputs



SUPER-DEW FEATURES

- **Compact lightweight meter for in-line**
- **Factory calibrated, traceable to national standards**
- **Accurate to 1 ppm equivalent moisture in dry gas**
- **Ranges available from $-100\text{ }^{\circ}\text{C}$ Dewpoint Temperature**
- **Interchangeable sensors without affecting accuracy**
- **Field calibrateable**
- **Two year warranty**
- **Stainless Steel sensor holder, co-ax cable, power cable and circular calculator included**

The *Shaw* Super-Dew is a low cost, high performance instrument that indicates, controls and alarms dewpoint temperature, which is linear to ppm definition. The heart of the system is a *Shaw* modified molecular sieve, aluminum oxide capacitance sensor with a gold internal filter and gold plated exterior.

Super-Dew Specification

Accuracy (meter):	1% of meter reading, ± 3 °C DP on Red Spot, ± 4 °C DP others Special low-spec version ± 7 °C, Gray Spot Sensor only.
Type:	In-line hygrometer in plastic DIN style case for panel mounting or tabletop use.
Dimensions / Weight:	Panel cutout 5.3 x 2.6 x 6.9 inches deep. Weight: 1.25 pounds
Display:	Backlit LCD digital indicating meter defining dewpoint in degrees C (degrees F available)
Sensor Connection:	TV type connector to low loss co-ax cable (75 ohms max impedance, capacitance of 50 pF per meter). Sensor location up to 3,300 feet from meter except 1,000 feet with Zener Barrier Unit
Power Supply:	110 or 220 V ac, 18 –30 V dc
Sampling:	Pressure to 2,800 psig but preferably atmospheric with flow rate of 1 - 5 liters/minute in <i>Shaw</i> Stainless Steel Sensor Holder.
Outputs:	Alarm relays rated at 240V, 3A Analog 4-20 ma and 0-1 Vdc standard
Calibration:	Automatic calibration on all but Gold and Blue range.
Accessories / Options:	Zener Barrier Unit for intrinsically safe operation in hazardous areas SU4 Sample System for conditioning gases to atmospheric pressure and controlled flow Stainless Steel filter, 1/8” or 1/4“ threaded process connections

Sensor Type:	Sensor Range:
Purple: (P)	-100 / 0 °C DP, 0-6000 ppm, (auto-cal)
Red : (R)	-80 / -20 °C DP, 0-1000 ppm, (auto-cal)
Gray : (GY)	-80 / -0 °C DP, 0-6000 ppm, (auto-cal)
Gray LS : (GYLS)	-80 / -0 °C DP, 0-6000 ppm, (auto-cal)
Blue : (BL)	-80 / +20 °C DP, 0-23,000 ppm, (manual -cal)