

**Engineering Specifications**  
**Alta Labs™ Humidity Sensor**  
**2%, 3% RH & RH/T Transmitter**  
**Outdoor model HO Series**

1. Sensor shall have replaceable digitally profiled thin-film capacitive sensor element.
2. Humidity sensor shall be 2%, 3%, or 5% accurate @ 0 to 90% RH.
3. Sensor RH element shall be replaceable and transmitter shall perform to specified accuracy without calibration.
4. Sensor shall operate over a 0 to 100% RH range.
5. Sensor shall recover from 100% saturation.
6. Sensor shall operate over a -50 to 50°C temperature range.
7. Sensor shall operate over a 12 to 30VDC voltage range.
8. Sensor shall have weather-proof enclosure for mounting outdoors.
9. Sensor shall be Veris Industries model HO.

**FOR 4-20mA OUTPUT**

10. Sensor shall produce a non-polarity sensitive 4-20mA output scaled 0 to 100% RH.
11. Sensor shall produce a 0 to 1V test point output scaled 0 to 100% RH.

**FOR 0-10VDC OUTPUT**

11. Sensor shall produce a 0-10V output scaled 0 to 100% RH.

**FOR TEMPERATURE OPTION:**

12. Temperature sensor element shall be microelectronic IC; Accuracy +/-0.5°C typ., Resolution: 0 to 50°C = 0.1°C, -50° to 50°C = 0.125°C. Thermistors may be specified.
13. Sensor shall have a N.E.M.A. 4 rating