Network Temperature & **Relative Humidity** Sensors

Modbus RTU Protocol

High-reliability

- Serial RS-485 output - improved signal integrity over conventional analog outputs, Modbus RTU. *Consult factory for other protocols*
- Thin-film capacitive RH sensor element recovers from 100% saturation
- Rugged, transient protected inputs and outputs prevent damage from electrical noise and miswiring

Calibration free accuracy

- Fully interchangeable RH sensor for calibration-free operation
- Digital IC temp sensor is factory programmed - no field adjustment necessary
- Eliminate costly scaling and offset adjustment procedures

Lowest total installed cost!

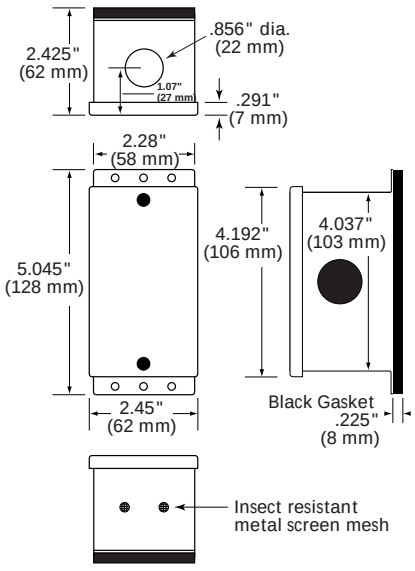
- Combination RH and Temp in a single labor saving device
- Reduced wiring - temperature, RH%, and dew-point data on a single twisted pair

OPERATION

The HX-485 temperature and relative humidity sensors are designed for use in HVAC and process control applications which require accurate, maintenance-free operation. Up to 63 devices can transmit temperature, relative humidity, and dew point on a single twisted-pair RS-485 network.

DIMENSIONAL DRAWINGS

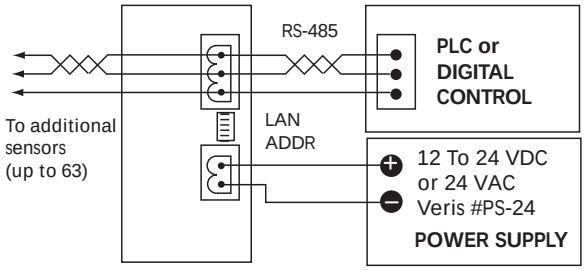
HX-485/TX-485



SPECIFICATIONS

H^2 Sensor	Digitally profiled thin-film capacitive (32 bit mathematics) Patent Pending
Accuracy	±2% or ±3% (specify) @ 0 to 90% RH; Dual-point calibration NIST standards
Stability	±1% @ 20°C (68° F) annually, for two years
Operating Humidity Range	0 to 100% RH
Temperature Coefficient	± 0.04% RH/° C over 0 to 60° C (32° to 140° F)
Scaling	0–100% RH
Input Power	12–30 VDC or 24 VAC*, 15 mA max.

WIRING DIAGRAM



Ordering **INFORMATION**

FUNCTION	OUTDOOR	( ) PROTOCOL
RH/Dewpoint Temperature RH/Dewpoint/Temp	HXO-485 TXO-485 HXO/T-485	[-M] Modbus RTU Other (specify)

HUMIDITY

ALTA LABS™