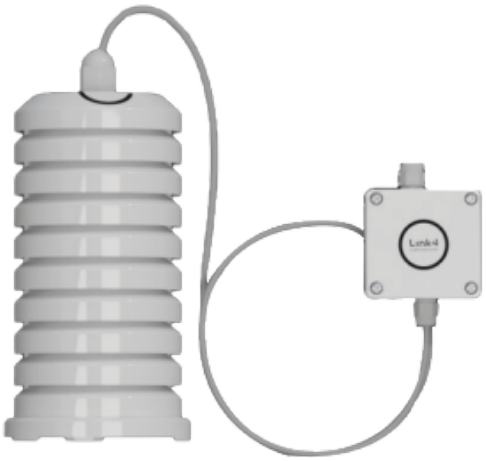
DATA SHEET

DIGITAL TEMPERATURE AND HUMIDITY SENSOR

SKU: 990-0001-MB

Accurate digital temperature and humidity sensing with built-in redundancy and sun protection.

This DTH sensor provides precise temperature and humidity data and a backup thermistor. Designed for greenhouse and environmental control, it features Modbus RTU, a radiation shield, and a 10 ft cable to a junction box.



SPECIFICATIONS	DETAILS
Temperature Range	–20 °C to +80 °C (non-condensing)
Humidity range	10% to 90% RH (non-condensing)
Temperature accuracy	±0.5 °C
Humidity accuracy	±2% RH
Power supply	24VDC
Communication	Modbus RTU
Radiation shield	Included (standard)
Cable	10 ft from shield to junction box
Mounting	Radiation shield and external enclosure

Performance

- Accurate within ±0.5 °C and ±2% RH
- Built-in radiation shield improves readings in direct sunlight
- Stable operation in non-condensing environment.

Efficiency

- Compact, rugged, and weather-resistant design
- 10 ft shielded cable to external junction box
- Passive thermistor backup adds fail-safe protection
- Easily mountable in greenhouses, outdoors, or indoor grow rooms

Connectivity

- RS-485 (A, B, Shield) for communication and two separate wires for power
- Industry-standard communication
- Shielded cabling ensures signal stability in noisy environments