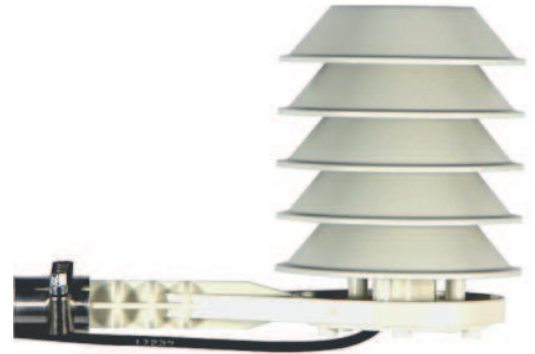
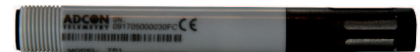


ADCON TR1 Temperature & Relative Humidity Sensor

The TR1 provides accurate and reliable measurement of temperature and relative humidity. The fully sealed sensor body contains a pt1000 sensor, a capacitance humidity element and an integrated amplifier. Calibration and compensation data is stored inside the sensors electronics. The humidity element is covered by a protective coating to extend its life and avoid erroneous readings due to build-up of dust or chemicals.



Power consumption is very low, with a stability time of less than 2 seconds. The sensor elements are protected within an ultra-fine wire mesh screen cap. Sinter caps for extremely dusty and corrosive environments are also available.



TR1 Sensor

The sensor is mounted within a 5 element radiation shield, made of durable thermoplastic. The radiation shield is coated black on the inside to avoid heat-buildup. It is fixed to an aluminium arm, fitted with a mast mounting bracket and clamps. A 3m 7-pin Binder cable supports direct connection to an Adcon RTU.



TR1 Sensor Elements

Applications

- Meteorological and hydrographical weather stations
- Livestock monitoring
- Industrial monitoring
- Storage and silo monitoring

Technical Data

| | | | |
|--------------------|--|-----------------------|--|
| Dimensions | L: 415 x H: 190 x \varnothing 102 mm Sensor only: 100mm x 12 mm \varnothing | Response Time | less than 2 sec. |
| Weight | 615 g | Storage Temperature | -40°C ... +80°C |
| Temperature sensor | pt1000 (DIN A) | Power Consumption | 4,5 ... 15VDC |
| Measuring range | -40°C ... +60°C | Cable & Connector | 3m, 7-pin M9 male Binder conn. |
| Accuracy at +20°C | < \pm 0,2°C | Mounting | mast mounting bracket for poles with \varnothing of 35-40mm, clamps included |
| Humidity sensor | HC101 | Ordering information: | |
| Measuring range | 0% ... 100% | 200.733.031 | Adcon TR1 Combisensor |
| Accuracy at +20°C | \pm 2% in range from 0 - 90% \pm 3% in range from 90 - 100% | 800.000.410 | Sinter filter cap |