

## **ADCON TR2 Air Temperature & Relative Humidity Sensor**

TR2 with its SDI-12 interface and ultra-accurate temperature sensor with extended temperature range was built for extremely demanding applications, from research and professional meteorology to industry. The fully sealed sensor body contains a pt1000 sensor, a capacitance humidity element and a signal amplifier. Calibration data is stored inside the sensors electronics. Power consumption is extremely low, with a stabilizing time of less than 2 seconds.

The sensor elements are protected from dust by a wire mesh screen cap. Other filter caps, such as sinter caps for corrosive environments and PTFE to protect against micro-particles are also available. The humidity sensor is encapsulated and covered by a protective coating to extend its life time and avoid erroneous readings due to build-up of dust or chemicals.

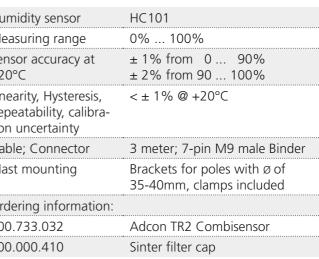
The new radiation shield with 7 elements made of durable thermoplast further reduces potential heat-build-up, caused by lateral radiation. Each element is coated black on the inside to avoid reflection of radiation towards the sensor. It is mounted to an aluminum arm, fitted with a mast mounting bracket and clamps. A 3m 7-pin Binder cable supports direct connection to an Adcon RTU.

## **Applications**

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

## **Technical Data**

Dimensions	L: 415 x H: 190 x Ø 102 mm Sensor only: 140mm x 12 mm Ø	Humidity sensor	HC101
		Measuring range	0% *
Weight	615 g	Sensor accuracy at +20°C	± 1% fi ± 2% fi
Response Time	less than 2 sec.		
Storage Temperature	-40°C +80°C	Linearity, Hysteresis, Repeatability, calibra- tion uncertainty Cable; Connector Mast mounting	<±1%
Power Consumption	5,5 15VDC / ~ 1mA		
Output Signal	SDI-12		~ .
Temperature sensor	pt1000 (DIN A)		3 meter
Measuring range	-40°C +80°C		Bracket 35-40m
Sensor accuracy	< ± 0,05°C @ +20°C	Ordering information:	
Linearity, Hysteresis, Repeatability, calibra- tion uncertainty	< ± 0,05°C @ +20°C	200.733.032	Adcon <sup>-</sup>
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TR2 Sensor Elements



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