

# Technical Data

TR2 Combisensor Temperature/rel.Humidity SDI-12



## Combi Sensor "Professional"

The Adcon TR2 is an improved version of the successful TR1. All parameters are designed to match even the most demanding specifications of professional users. Data processing is done right inside the sensor, and all values are output via SDI-12.

General:	
Supply Voltage	5.5 ... 15 VDC
Current consumption	< 1,5 mA typ.
Operating Temperature	-40°C ... +80°C / -40°F ... +176°F
Operating Humidity	0 ... 100% rH
Material of radiation shield	PC
Mounting material	Aluminum tube, PC brackets, pipe clamps of W4 stainless steel
Material of sensor body	Tecapet
Protection class	IP65
Overall Dimensions, incl. mounting & shield	LxWxH: 450 x 100 x 270mm LxWxH: 17.7 x 3.95 x 10.7 in.
Dimensions Sensor only	140 x 12mm L x Diameter
Weight	600g / 1.3 lb.
Cable and Connector	3m (or 6m optional) cable with male 7-pin M9 Binder
Mounting	mast mounting brackets for 40mm pole, with 2 pipe clamps 32-50mm

Relative Humidity:	
Measuring Range	0 ... 100%rH
Accuracy at +20°C:	±1% rH from 0 - 90% rH ±2% rH from 90% - max. rH
Temperature dependence	±0.03% rH /°C
Long-term Stability	<1% rH per year

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Output Signal	SDI-12
Sensor Element	Capacitance, w/ protective coating (HC01)

Temperature:	
Measuring range	-40°C ... +80°C / -40°F ... +176°F
Accuracy at +20°C	±0,1°C (total error!)
Output signal	SDI-12
Sensor element	pt1000 DIN A

Dew Point:	
Measuring range	-40°C ... +80°C / -40°F ... +176°F
Resolution	0,01°C
Output signal	SDI-12