

Technical Data

Adcon TR1 Air Temperature & rel Humidity Sensor



Spare sensor for Adcon's Combi sensor model "Standard"

Highly accurate, versatile temperature and humidity sensor housed in a small cylindrical case made of Tecapet it has proven its superior robustness and corrosion resistance over more expensive aluminum cases.

General:	
Supply Voltage	5.5 ... 15 VDC
Supply Current	<1,5mA typ.
Operating temperature	-40°C ... +60°C / -40°F ... +140°F
Operating humidity	0 ... 100% rH
Material of sensor case	Tecapet
Protection class	IP65
Length	101mm / 4.02in
Diameter	12mm / 0.47in
Weight	13g / 0.4586 ounces
Connector	8-pin M12 male on sensor body
Sensor protection	Wire mesh filter cap, pore size 30µm Optional filters: PTFE membrane filter, pore size 1µm PTFE sinter filter, pore size 50µm Stainless steel sinter filter, pore size 10µm
EMC compliance	EN61326-2-3

relative Humidity:	
Measuring range	0 ... 100%rH
Accuracy at +20°C:	±2% rH from 0 ... 90% rH ±3% rH from 90 ... 100% rH
Temperature dependence	±0.03% rH /°C
Long term stability	< 1% rH per year

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Output signal	0 ... 2.5 VDC
Sensor element	capacitive, with protective HC01 coating

Temperature:	
Measuring range	-40°C ... +60°C / -40°F ... +140°F
Accuracy at +20°C	±0,2°C
Output signal	0 ... 2,5VDC
Sensor element	pt1000 DIN A