Humidity Probe

Improved version of the popular EE08 probe from E+E Elektronik

	EE08-SS
Input Voltage	7 to 30 V DC
Current Draw	Less than 1.3 mA
Start-up Time	2 s
Housing	Polycarbonate, IP65
Filter	Stainless steel wire mesh, 30 micron pore size
Connector	M12, IP67
Dimensions	83 mm length, 12 mm diameter
Mass with 5 m Cable	270 g
Operating Environment	-40 to 80 C; 0 to 100 % relative humidity
Cable	M12 connector (IP67 rating) to interface to sensor housing, 5 m of four conductor, shielded, twisted-pair wire, white TPR jacket (high water resistance, high UV stability, flexibility in cold conditions), pigtail lead wires

Overview

The EE08-SS air temperature/relative humidity probe is manufactured by E+E Elektronik in Austria. The upgraded version sold by Apogee includes a stainless steel connector and custom cable with a ninety degree connector that optimizes the fit of the probe inside the Apogee TS-100 fan-aspirated radiation shield. The EE08-SS offered by Apogee also includes a proprietary coating from E+E for the relative humidity sensing element that provides maximum long-term stability.

Fan Aspiration

Fan aspiration of humidity probes can improve accuracy over passive shields. The **TS-100/TS-200** shield (pictured) is an excellent choice for accomplishing this and is available at a special package price when purchased together (**TS-120/ TS-220**). To see these sensor packages, please visit our website.

Temperature Measurement	
Sensor	PT1000 (Class A)
Measurement Range	-40 to 60 C
Output Signal Range	0 to 2.5 V DC
Slope	0.04 C per mV
Intercept	-40 C
Accuracy at 20 C	± 0.2 C
Long-term Stability	Less than 0.1 C per year
Time Constant	Less than 30 s

Relative Humidity Measurement	
Sensor	Capacitance Chip
Measurement Range	0 to 100 %
Output Signal Range	0 to 2.5 V DC
Slope	0.04 % per mV
Intercept	0.00 %
Accuracy at 20 C	± 2 % from 0 to 90 %; ± 3 % from 90 to 100 %
Temperature Response	Less than -0.05 % per C
Long-term Stability	Less than 1 % per year
Time Constant	Less than 30 s

TS-120
Fan-aspirated
radiation shield
with EE08-SS