## **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	tor M12, IP67	
Dimensions 83 mm length, 12 mm diameter		
Mass with 5 m Cable	270 g	
Operating Environment	ating 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		Relative Humidity Measurement	
Sensor	PT1000 (Class A)	Sensor	Capacitance Chip
Measurement Range	-40 to 60 C	Measurement Range	0 to 100 %
Output Signal Range	0 to 2.5 V DC	Output Signal Range	0 to 2.5 V DC
Slope	0.04 C per mV	Slope	0.04 % per mV
Intercept	-40 C	Intercept	0.00 %
Accuracy at 20 C	± 0.2 C	Accuracy at 20 C	± 2 % from 0 to 90 %; ± 3 % from 90 to 100 %
Long-term Stability	Less than 0.1 C per year	Temperature Response	Less than -0.05 % per C
Time Constant	Less than 30 s	Long-term Stability	Less than 1 % per year
		Time Constant	Less than 30 s

