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## HS-91(P)

## PRODUCT INFORMATION



## Relative air humidity and temperature sensor

- Accurate also at high RH
- Electronics encapsulated by silicone
- Solid stainless steel housing
- Built-in heating
- Recalibration not necessary
- Built-in compensation for temperature function



### Introduction

The HS-91 is a relative air humidity and temperature sensor with high accuracy, even in the case of higher relative humidity (RH) values. The electronics are moulded into a solid stainless steel housing, and the device can therefore be used virtually everywhere. A built-in heating system prevents condensation on the sensor element when the dew point is reached. A chip programmed by Contronics compensates for temperature fluctuations. The sensor is already calibrated on delivery. Follow-up calibration is unnecessary due to the excellent stability.

#### HS-91P

The HS-91 can also be delivered with a DIN plug for direct connection to a Contronics humidifier. (Order number: HS-91P)

## **Specifications HS-91 (P)**

Relativ	e humidity:		
	Output	0-1 Volt: 0-100% RH linear or 0-10 Volt: 0-100% RH linear	
Тетре	erature:		
	Output	0-4 Volt linear	0 V = -50 °C 0,5 V = 0 °C 1.0 V = 50 °C
	Supply voltage	12-15 Volt direct cu	· ·
RH pe	rformance specification	is:	
	Resolution	0.5% RH min. 0.3% RH typical	
	Absolute accuracy	10-90% < 2% RH 0-10% 2-4% RH 90-100% 2-4% RH	
	Range	0-100%	
	Reaction time	4 sec.	
	Long-term stability	< 1% RH/year	
T perfo	ormance specifications:		
	Deschutters	0.01.00	

Resolution	0.04 °C min.
	0.01 °C typical
Absolute accuracy	0.5 °C at 25 °C
Range	- 40 °C min.
	+ 70 °C max.
Reaction time	5 sec.





COOL SERVIS s.r.o., Čsl. armády 2243, 39003 Tábor 3

telefon: 381 231 000 381 231 555 381 231 888

www.coolservis.cz www.klimatizace.org www.t-cerpadia.cz E-mail: info@coolservis.cz GSM: 608 231 000 Skype: coolservis