

S6000

INTERCHANGEABLE SENSOR MODULE FOR RELATIVE HUMIDITY



Main characteristics

- Interchangeable without recalibration
- Linearised and temperature compensated humidity measurement
- Operating range: 0 ... 100 %rh, -30 ... +85 °C
- Accuracy: ± 2 %rh, ± 0,2 °C
- Output signal:
 - Humidity: analogue and digital
 - Temperature: Pt100 Ω 1/3 DIN
- Capacitive thin film humidity sensor
- Sensor response time: 10 seconds

The concept of the S6000 is its interchangeability without the need of a recalibration due to a miniaturised electronic circuitry (ASIC).

This reduces maintenance cost drastically.

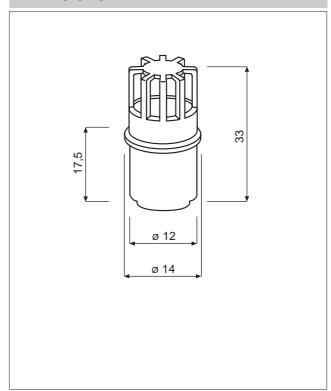
The small size allows its integration in any equipment.

The plug-and-play system guarantees fast replacement also for non-skilled staff.

TECHNICAL DATA

	Humidity	Temperature
Connections	3 wire	3 wire
Accuracy @ 23 °C	Hysteresis and non-linearity included	Pt100 Ω 1/3 DIN
	± 1,5 %rh (595 %rh)	direct: ± 0,2 °C
	± 2 %rh (< 5 %rh, > 95 %rh)	
Resolution	0,124 %rh	/
Measuring range	0 100 %rh	-30 +85 °C
Sensor	(90% of scale for a step change	/
response	from 11% to 75 %rh)	
time		
	< 10 sec	
Output signal		
Analogue	0 1V	Pt100 Ω direct
		1/3 DIN (3 wire)
Digital	variable frequency output	
Supply voltage: E	5 VDC ± 10%	
Impedence: R	Voltage: R > 6MΩ	/
	Digital: CMOS compatible	
Consumption	1,35 mA	
Operating range		
Measuring head	0 100 %rh	-30 +85 °C
Housing	0 100 %rh	-30 +85 °C
Storage	0 100 %rh	-40+ 85 °C
Housing		
Dimension	33mm, ø 14mm	
Material	NORYL PPo UL 94 V0	
Weight	3 g	
Electrical connections	"Tulip" connector	
COMPUTIONS		

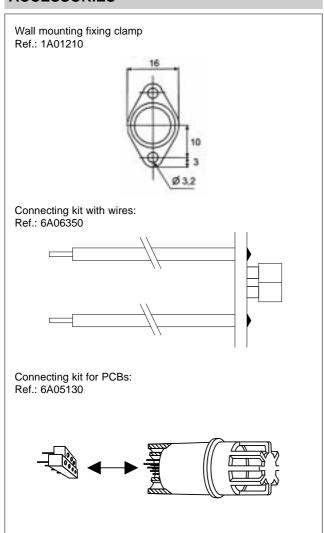
DIMENSIONS



APPLICATION EXAMPLE

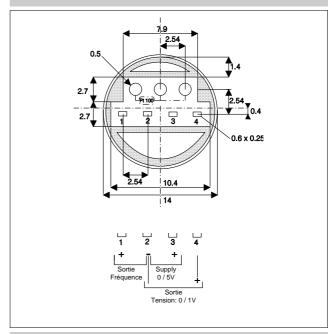


ACCESSORIES

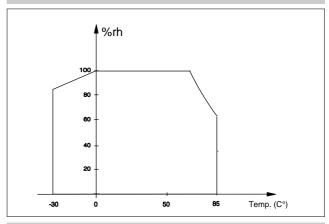


DIGITAL OUTPUT S6000

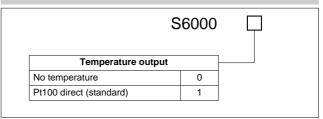
CONNECTION OF S6000



MEASURING RANGE



ORDERING CODE



GEFRAN spa reserves the right to make any kind of design or funcional modification at any moment without prior notice



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