

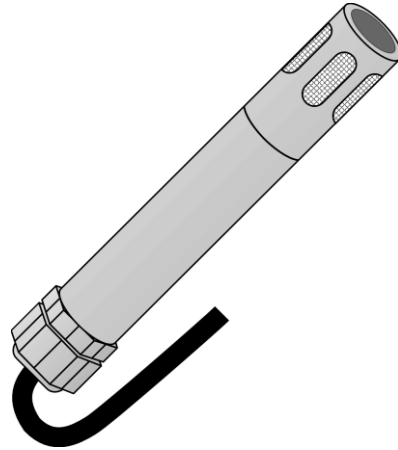
## 4-20 mA RELATIVE HUMIDITY AND TEMPERATURE SENSOR

### DESCRIPTION:

The unit includes an environment relative humidity sensor as well as a temperature sensor. Both of them have high sensitivity and precision. They can be used for a wide range of premises and different types of environment.

It is suitable for environments with chemical steams such as isopropylene, benzene, toluene, oils, common cleaning products, ammonia from farms, etc.

It is advisable to use the sensor with ventilated humidity for environments with high humidity and great possibility of condensation in the sensor.



### TECHNICAL CHARACTERISTICS:

#### RELATIVE HUMIDITY SENSOR:

Outlet signal	4-20 mA
Reading rank	0-100 % HR
Precision	± 2 %, 0-100 % HR without condensation, at 25 °C
Stability	± 1 % at 50 % HR in 5 years

#### TEMPERATURE SENSOR:

Outlet signal	2,632–3,332 V
Reading rank	-10 °C to +60 °C
Precision	± 1,5 °C
Stability	± 0,1 °C

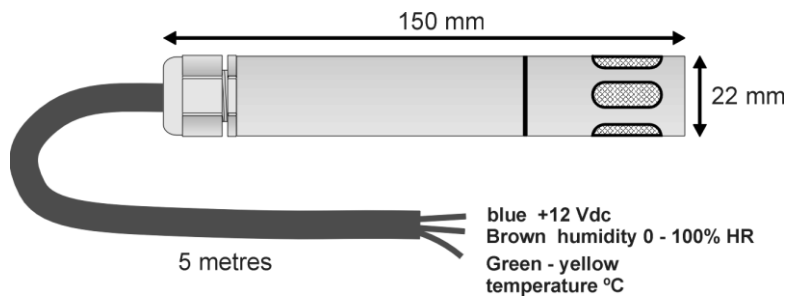
#### GENERAL:

Feeding	Minimum	+10,5 Vdc (on 200 omhs)	
	Typical	+12 Vdc	
	Maximum	+15 Vdc	
Connections	Blue	+12 Vdc	
	Brown	Outlet 4-20 mA	0 to 100 % HR
	Green-yellow	Outlet 2.632-3.332 V	-10 to +60 °C
Maximum distance	800 metres (with 0.5 mm screened section cable)		
Answering time	15 seconds		
Protections	Reverse current	Yes	
	Overtension	Yes	
Work temperature	From -10°C to +60 °C		
Work humidity	From 0% to 100 %		

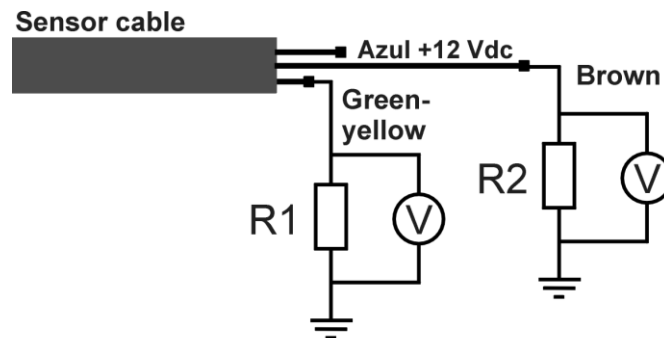
## INSTALLATION AND MAINTENANCE:

- The sensor has to be placed in a horizontal position and held by the clamp which is supplied with it.
- Do not place the sensor cable next to power cables.
- If the sensor cable has to be made longer, use 0.5 mm screened cable, connecting the screen to earth by one of its ends.
- Do not touch the internal sensors with the fingers.
- Keep the sensor ventilation grilles always clean.
- In environments with high humidity, there may be condensations in the sensor. To avoid so, mix the air well to minimize local temperature fluctuations.
- If there are condensations in the sensors, the sensor will indicate the 100% of humidity until it dries.
- In the relative humidity and ventilated temperature sensor, check the working of the fan periodically and clean its filter.

## DIMENSIONS:



## CONNECTION:



R1= 10 K $\Omega$   
R2= maximum 200  $\Omega$

### Sistemas Electrònics Progrés, S.A.

Polígon Industrial, C/ de la Coma, 2  
25243 El Palau d'Anglesola | Lleida | España  
Tel. 973 32 04 29 | info@progres.es  
www.progres.es