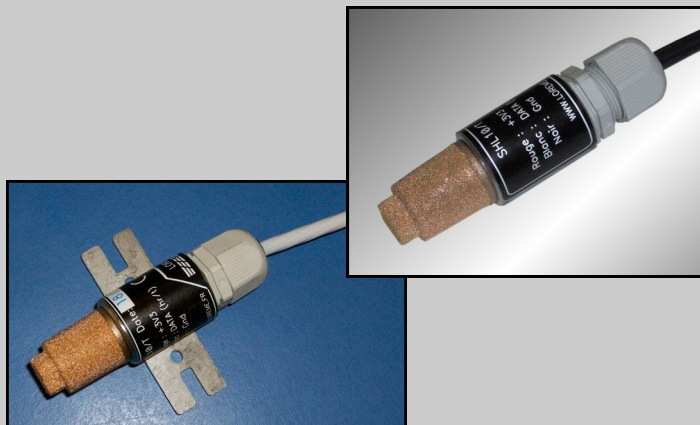


- **SHL10/T: Thermo-hygrometer**  
application: room atmosphere or air duct clamp or flange fixing  
Protection IP65
- **Direct numeric output**  
1 wire link, Hr and T° transmission
- **Low consumption**  
< 6 milliwatts



Rugged room or air duct thermo-hygrometer for use in harsh environment (dirty atmosphere). The fully numeric measurement concept ensures very high repeatability and excellent long-term performance characteristics.

### DESCRIPTION:

Low consumption transmitter with built-in temperature and humidity sensors and serial numeric output.

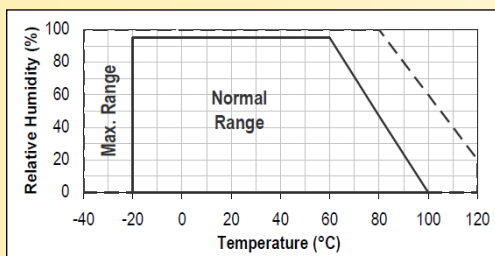
### IMPLEMENTATION:

- 18 mm diameter inox 316L probe ( 66 mm overall length )
- Electronic protected by conformal coating
- Protection of sensitive element by filtering tip in sintered brass
- Clamp mounting or sliding flange mounting (air duct)
- Output with 0.5mm<sup>2</sup> cable with 5m length (other on request)
- 3.3V power supply (protected from reverse polarity)

### TEST - QUALIFICATION:

return time of approximately 10 seconds after 150 hours of condensation (response of sensitive element without filter).  
Humidity hysteresis +/- 1,5 %. long term stability 0,5 % / years.  
Linearity better than 2% for Hr measure range 10% 90% .

Operating conditions:



### Technical specifications:

#### POWER SUPPLY

Voltage 3,3 Vdc typical consumption < 2 mA

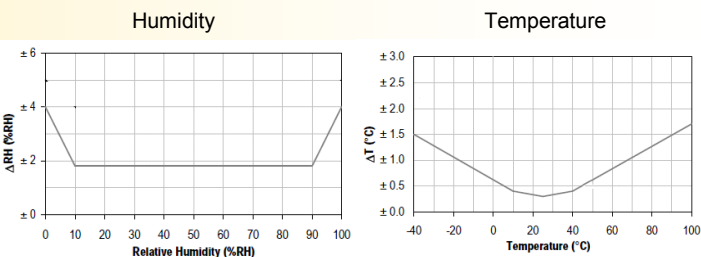
#### OUTPUT

Asynchronous digital serial link 1200 bauds

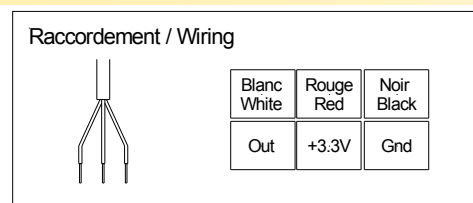
#### ENVIRONMENT

Operating temperature -20 / +85 °C  
Storage temperature -25 / +105 °C  
Humidity 100 %  
Weight ~ 85 g  
Protection IP65

#### MEASURE ACCURACY



### WIRING AND OUTLINE DIMENSIONS:



high temperature (105°C), 5 meter length cable  
3 colours (red, white, black)  
0.34mm<sup>2</sup> or 0.5mm<sup>2</sup> section

