



## ETM-30

### TEMPERATURE AND HUMIDITY SENSOR

- **LOW COST**
- **CALIBRATED**
- **2 ANALOG OUTPUTS**
- **SERIAL RS232 o RS485**

**ETM-30** is a temperature and relative humidity sensor based on a new AirChip 3000 technology

**ETM-30**, using an ASIC microprocessor, presents an interesting and innovative series of characteristics that make this sensor very suitable and useful for automatic systems

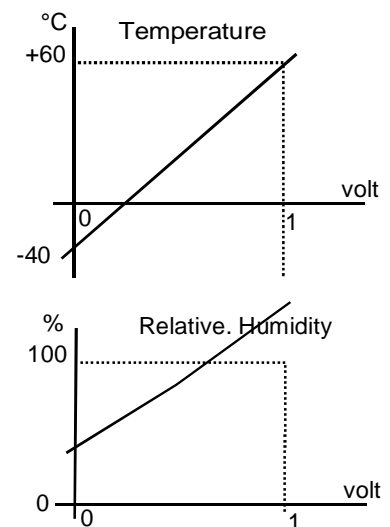
#### ETM-30

- Temperature: PT 100 1/3 DIN (high selection on request)
- Humidity: capacitive sensor with temperature compensation.
- Dew point: calculated (\*)
- 2000 values stored and transmitted (\*)
- Automatic humidity sensor test and drift (\*)
- Alarms capabilities (\*)

(\*) Only for serial output. Software and command list on request .

#### ETM-30 Outputs:

- Temperature: 0...1 Vcc = -40.....60 C .
- Relative Humidity: 0...1 Vcc = 0.....100 %.
- Serial: RS232 or RS485



#### Electrical connections

- V + Power supply 7..24 Vcc
- GND Digital and analog
- RS232 - Rx / RS485 A+
- RS232 - Tx / RS485 B -
- Humidity analog signal  
0...100 % 0..1 Vcc
- Temperature analog signal  
-40..60 °C 0..1 Vcc
- AGND Analog reference signal



**Lombard & Marozzini Srl**  
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## TECHNICAL SPECIFICATIONS

Humidity primary element		Capacitive	
Temperature primary element		Pt100 1/3 DIN	
Accuracy ( % of readings )		Temperature	Relative humidity
		@ -10°C = 0,3% @ +23°C = 0,3% @ +50°C = 0,4% @ +70°C = 0,5%	@ +23°C = 1,5% @ +50°C = 2,0% @ +70°C = 2,5%
Serial output resolution	Temperature	0,1 °C	
	Relative Humidity	0,02 % RH	
Long term stability (Humidity primary element)		Better then 1 % RH / year	
Response time ( 63% del valore)		12 seconds	
Environmental		-50...100 °C / 0...100 % RH	
Outputs	Analog	0...1 V = -40...60 °C	0...1 V = 0...100 % U R
	Serial	RS232 o RS485	
Humidity sensor test and drift		Only for serial output	
Alarms capabilities			
Power		7-24 VDC - 23 mW	
Probe		Poly carbonate (PPS)	
Filtering element		Polyethylene	
Conformity		CE - 007/108/EG	

### Catalog number: ETM-30-Suff.1-Suff.2-Suff.3

		Suffix		Note
Anti radiation shield	None	1	N	Not supplied
	Passive		R	6 plates
			P	10 plates
	Motor aspirated at 5 m /s		V	12Vcc
Cable length (meters)		2	xx	Analog out max 5m
Serial output	None	3	N	---
	RS232		2	PC connection ( max. 10 m)
	RS485		4	Max. 1.200 meters

Specifications may be subject to change without prior notice



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