

TRANSMICOR T233 series high temperature

RELATIVE HUMIDITY TRANSMITTER WITH REMOTE PROBE



Main characteristics

- Measure range: 0 ... 100 %rh, -30...+140 °C
- Accuracy: ± 2 %rh, $\pm 0,2$ °C
- Output signal: 4 ... 20mA (2 wire), Pt100 Ω 1/3 DIN
- Power supply: 9/33VDC
- Protection degree: IP65
- Interchangeable sensor module S6000
- Linearised and temperature compensated humidity measurement
- Capacitive thin film humidity sensor
- Sensor response time: < 10 seconds
- CE conformity

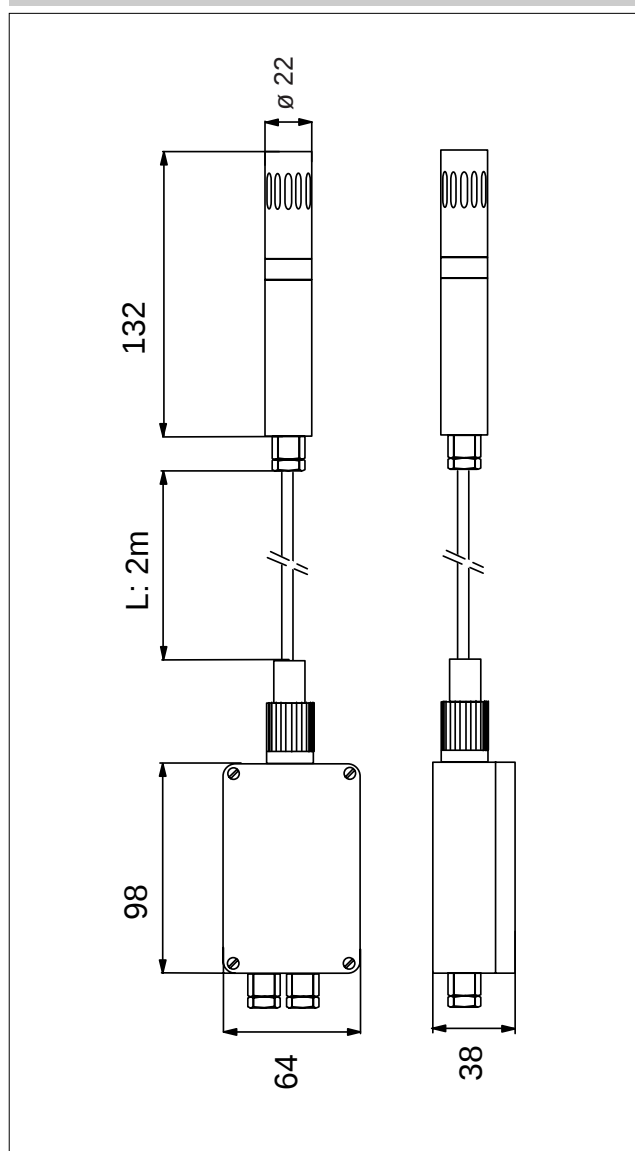
The T233 series relative humidity probe is equipped with the calibrated and fully interchangeable sensor module HUMICOR S6000, presenting an innovative element in humidity measurement.

Maintenance cost is therefore drastically reduced and machine downtime is minimised.

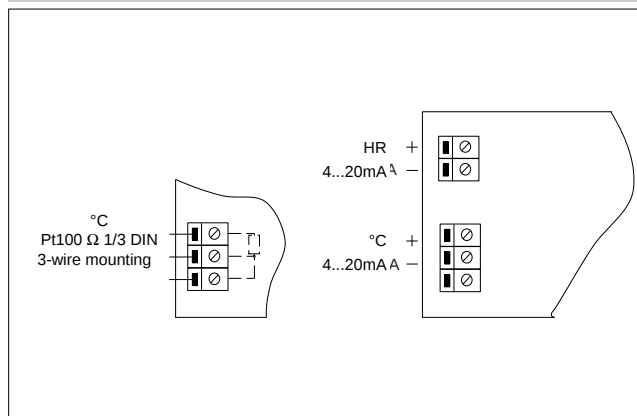
TECHNICAL DATA

	Humidity	Temperature
Connections	2 wire	2 wire
Accuracy @ 23 °C	Hysteresis non-linearity included ± 2 %rh (5...95 %rh) $\pm 2,5$ %rh (< 5 %rh, > 95 %rh)	Pt100 Ω 1/3 DIN direct: $\pm 0,2$ °C Current output: $\pm 0,3$ °C
Measuring range	0 ... 100% rh	-30...+140 °C
Sensor response time	(90% of scale for a step change from 11% to 75 %rh)	/
Output signal	< 10 sec 4...20mA	4 ... 20mA Pt100 Ω direct 1/3 DIN (3 wire)
Temperature range	/	-30...+70 °C, 0...100 °C 0...150 °C
Power supply: E	9 ... 33VDC	
Impedance: R	$R < ((E - 9) / 0,02) \Omega$	
Consumption	20mA max.	
Operating range		
Probe	0 ... 100 %rh	-30 ... +140 °C
Housing	0 ... 100 %rh	-30 ... +70 °C
Storage	0 ... 100 %rh	-40 ... +70 °C
Housing		
Dimension	98*64*38	
Material	ABS	
Weight	290 g	
Probe		
Dimension	$\varnothing$ 22mm, L = 132mm Remote cable length 2 meters, $\varnothing$ 3,5mm	
Material	PVDF	
Protection degree	IP65	
Electrical connections	Screw terminal, tightening capacity 1,5 mm ² max.	

DIMENSIONS



ELECTRICAL CONNECTIONS



MEASURING RANGE

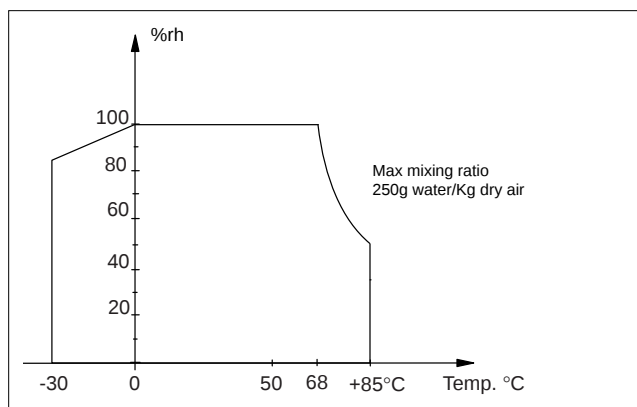
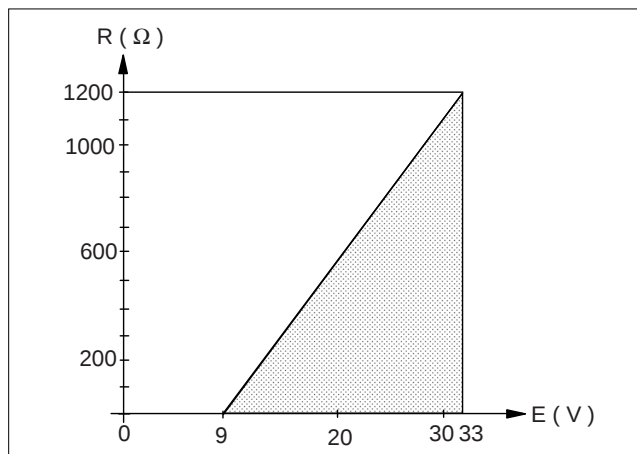


DIAGRAM OF MAXIMUM CHARGE



ACCESSORIES

Control kit HKC:

You can check your hygrometer with the control kit HKC which is based on the principle of non-saturated salt solutions. Refer to technical data sheet 85521

Interchangeable sensor module S6000:

S6000 high temperature for remote probe: Ref. 6A05381

REMOVING THE S6000



ORDERING CODE

Output signal		T2	3	3				
2 wire, 4 ... 20mA	3							
Model								
Remote probe	3							
Temperature range								
No temperature	0							
Pt100 direct (Standard)	1							
Range 0 ... 100 °C	2							
Range -30 ... +70 °C	3							
Range 0 ... 150 °C	4							
Power supply (Model 2 wire)								
9 ... 33 VDC	0							
Probe								
PVDF, D22mm, 2m cable	EX							
Protection cap / filter								
Slotted cap PVDF, white	E							
Slotted cap PVDF, white, with teflon filter	F							
Wire mesh filter, stainless steel	G							
Sinter filter, stainless steel (*)	H							
Sinter filter, stainless steel, teflon coated (*)	I							

(*) A knurled nut, ref. 1A04640, is necessary to fix these filter types

Example: T233.10EXE

Relative humidity transmitter T233, remote cable probe, white PVDF slotted cap, output signal humidity 4...20mA, temperature Pt100 direct output, power supply 9 ... 33VDC.

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



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