

TRANSMICOR T242 series high temperature

RELATIVE HUMIDITY TRANSMITTER DUCT VERSION



Main characteristics

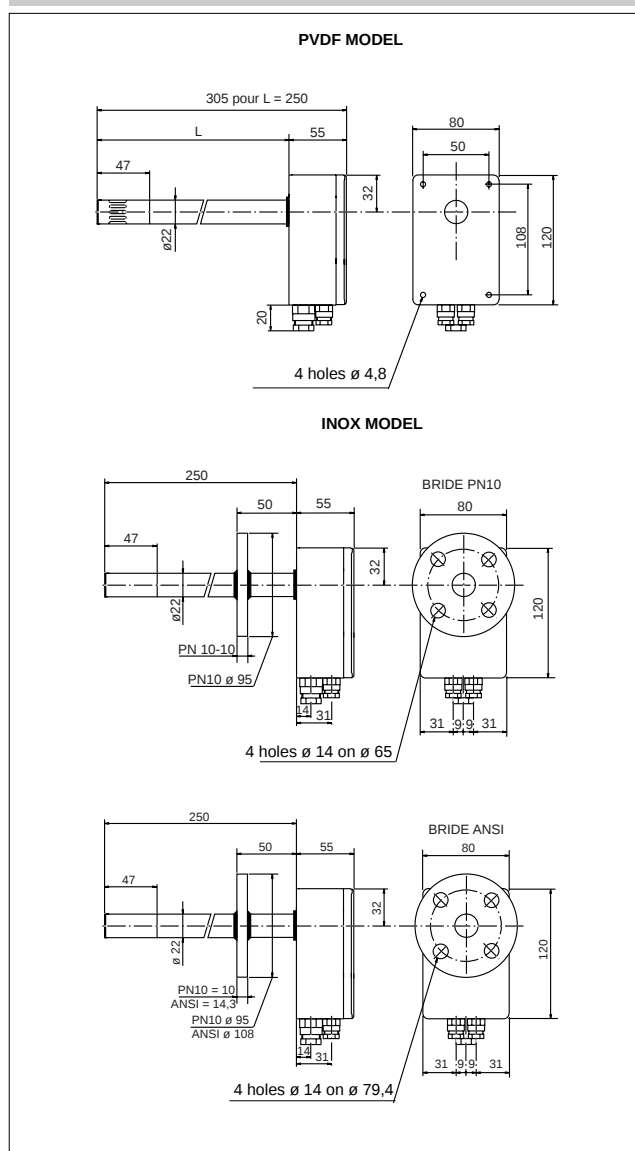
- Measuring range: 0 ... 100 %rh, -30 ... +140 °C
- Accuracy: ± 2 %rh, $\pm 0,2$ °C
- Output signal: 4 ... 20mA, 0 ... 20mA, 2 ... 10V, 0 ... 10V (selectable with jumper), Pt100 Ω 1/3 DIN
- Power supply: 24, 115, 230VAC
- Protection degree: IP65
- Interchangeable sensor module S6000
- Linearised and temperature compensated humidity measurement
- Capacitive thin film humidity sensor
- Sensor response time: < 10 seconds
- CE conformity

The T242 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

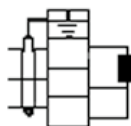
	Humidity	Temperature
Connections	4 wire	4 wire
Accuracy @ 23 °C	Hysteresis non-linearity included ± 2 %rh (5...95 %rh) $\pm 2,5$ %rh (< 5 %rh, > 95 %rh)	Pt100 Ω 1/3 DIN direct: $\pm 0,2$ °C Current output: $\pm 0,4$ °C Voltage output: $\pm 0,3$ °C
Measuring range	0 ... 100 %rh	-30 ... +140 °C
Sensor response time	(90% of scale for a step change from 11% to 75 %rh)	/
Output signal	< 10 sec 0/4...20mA, 0/2...10V	Pt100 Ω direct 1/3 DIN (3 wire) 0/4...20mA, 0/2...10V
Temperature range	/	-30...+70 °C, 0...100 °C, 0...150 °C
Power supply: E	24VAC, 115VAC, 230VAC	+ 10%, -15%
Impedance: R	Current output: R < 500 Ω Voltage output: R > 1K Ω	
Consumption	7VA global	
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	120*80*55	
Material	ABS	
Weight	480 g (PVDF), 1,4 Kg (STAINLESS STEEL)	
Probe		
Dimension	$\varnothing$ 22mm, L = 250 o 500mm	
Material	PVDF o STAINLESS STEEL	
Protection degree	IP65	
Electrical connections	Screw terminal, tightening capacity 2,5 mm ² max.	

DIMENSIONS

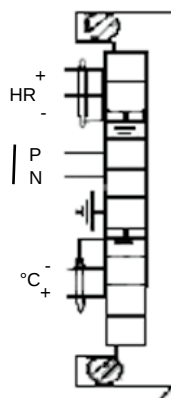


ELECTRICAL CONNECTIONS

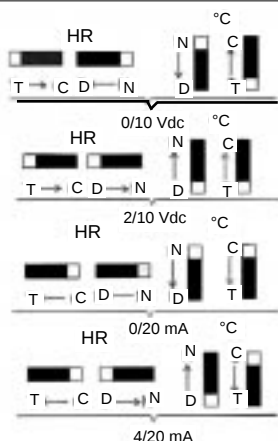
230 Vac 50/60 Hz +6% - 15%
115 Vac 50/60 Hz +6% - 15%
24 Vac 50/60Hz +6% - 15%



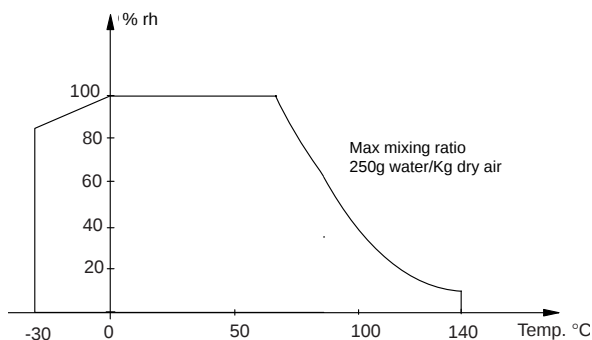
Pt 100 direct



DIP-SWITCH output selection



MEASURING RANGE



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 for 250mm probe: Ref. 6A05511
S6000 for 500mm probe: Ref. 6A07721

ORDERING CODE

T2 4 2

Output signal	
0...10V, 2...10V, 4...20mA, 0...20mA	4

Model	
Duct	2

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 4 wire)	
24 VAC	1
115 VAC	2
230 VAC	3

Probe	
PVDF 250mm, D22mm	A
PVDF 500mm, D22mm	B
Stainless steel 250mm, D22mm	C
Stainless steel 500mm, D22mm	D

For Stainless steel models	
No flange	0
Flange PN10 DN15	1
Flange ASA 150 LB. 1 Pouce	2

Protection cap / filter	
Slotted cap PVDF, white standard for PVDF probe	E
Slotted cap PVDF, white, with teflon filter	F
Wire mesh filter, stainless steel	G
Sinter filter, stainless steel standard for s. s. probe (*)	H
Sinter filter, stainless steel, teflon coated (*)	I

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

Example: T242.41AE

Relative humidity transmitter T240, 250x22mm PVDF probe, duct mounting version, signal output humidity and temperature 4/20mA, 0...20mA, 0...10V, 2...10V (humidity: 0...100 %rh / temperature: 0...150 °C), power supply 24 VAC, slotted cap in white PVDF.

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



LEADER Electronic Co., Ltd

116, Jianghuali, Jianghua Road, Jiangmen City, GD, PRC

Tel: + 86 750 3101711, 3379183

Fax: + 86 750 3388669

Website: www.leadersensors.com

E-mail: leader@leadersensors.com



code 85566 -05/00