



Main characteristics

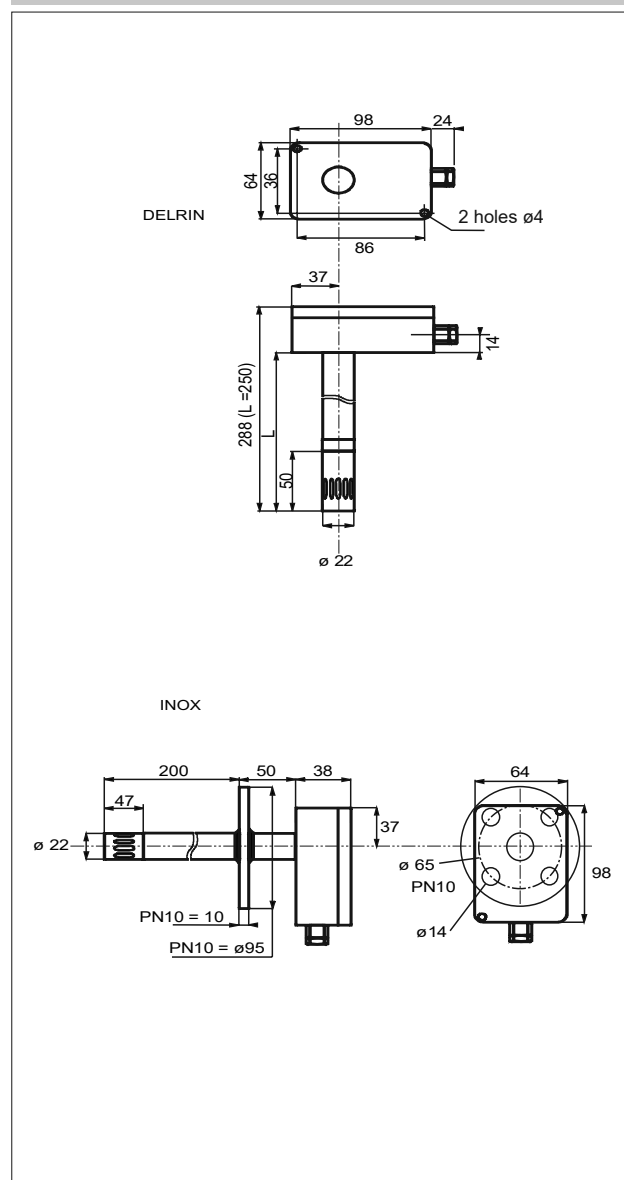
- Measuring range: 0...100%rh, -30...+70°C, 0...100°C
- Output signal: 4 ... 20mA (2 wires), Pt100 Ω 1/3 DIN
- Power supply: 10 ... 32Vdc
- Protection degree: IP65
- Interchangeable sensor module Hygrosmart
- Linearised humidity measurement
- Capacitive thin film humidity sensor
- Sensor response time: < 10 seconds
- CE conformity
- Drift < 2% RH/year

T232-BT relative humidity transmitters are equipped with the Hygrosmart relative humidity sensor/converter. This interchangeable module has miniaturized electronics and does not require recalibration.

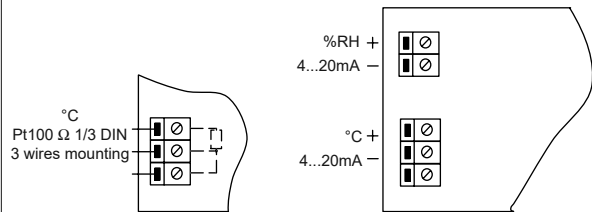
TECHNICAL DATA

	Humidity	Temperature
Connections	2 wire	2 or 3 wires
Accuracy @ 23 °C	Hysteresis and non-linearity included $\pm 2\% \text{RH}$ (5...95 %RH) $\pm 2,5\% \text{RH}$ (< 5 %RH, > 95 %RH)	Pt100 Ω 1/3 DIN direct: $\pm 0,2\text{ }^{\circ}\text{C}$ Current output: $\pm 0,3\text{ }^{\circ}\text{C}$
Measuring range	0 ... 100 %rh	-30 ... +85 °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)
Power supply: E	10...32 Vdc	
Impedance: R	$R < ((E - 9) / 0,02) \Omega$	
Consumption	20mA max.	
Operating range		
Probe	0 ... 100 %RH	-30 ... +85 °C
Housing	0 ... 100 %RH	-30 ... +70 °C
Storage	0 ... 100 %RH	-40 ... +70 °C
Housing		
Dimension	98*64*38	
Material	ABS	
Weight	150	
Stem		
Dimension	$\varnothing 22\text{mm}$, L = 250 or 500mm	
Material	DELTRIN or AISI 316L	
Protection degree	IP65	
Electrical connections	Screw terminal, tightening capacity 1,5 mm ² max.	

DIMENSIONS



ELECTRICAL CONNECTION



MEASURING RANGE

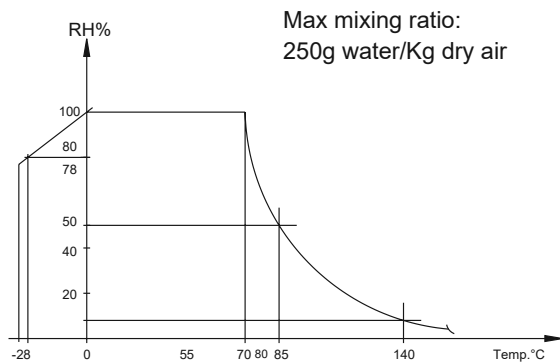
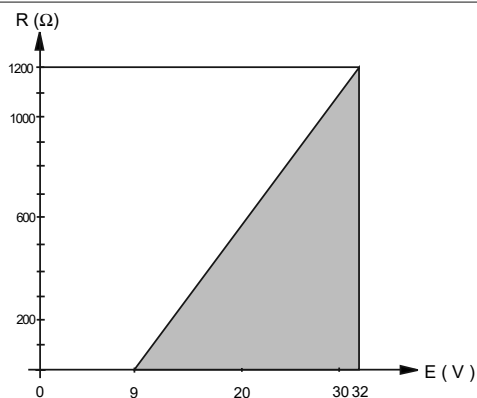


DIAGRAM OF MAXIMUM CHARGE



INTERCHANGEABLE MODULE

According to the mounted transmitter (S7000/S7400) the replacement codes are:

S7400.0 without Pt100	cod: S7400.0
S7400.1 with Pt100	cod: S7400.1
S7000.0 without Pt100	cod: S7000.0
S7000.1 with Pt100	cod: S7000.1

ACCESSORIES

Control kit HKC:

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 CONTROL KIT

REMOVING THE S7000/S7400

**ORDERING CODE**

Model									
Duct		2							
Temperature output signal									
None		0							
Pt100 direct (Standard)		1							
4...20mA range 0 ... 100 °C		2							
4...20mA range -30 ... +70 °C		3							
Supply (2wires model)									
10...32 Vdc		0							
Stem									
DELFIN 250mm, D22mm		0							
STAINLESS 250mm, D22mm		1							
For Stainless Steel models									
No flange		0							
Flange PN10 DN15		1							
Protections and filters									
White DELFIN cover + SS mesh filter (STD)		K4							
Sintered SS filter		H1							
Sintered SS filter + Teflon filter		J1							
Additional Certifications									
None		0							
Certificate of conformity		A							
Low temperature recalibration		C1							
Calibration with special isothermal curve (**)		ISO							
Calibration report		R							
Calibration points measurement for SSS module		S							
Calibration points measurement for SSS transmitter		S1							
SIT Calibration Certificate		T							
Calibration points measurement for module (1 isothermal curve 4 RH points)		W							

(**) Please indicate the required temperature

Ex: T232-BT-3-0-1-1-H1-A

T232 Relative humidity transmitter, duct mounting version, stainless steel probe, output signal humidity 4...20mA, temperature 4...20mA (range -30...+70 °C), power supply 10...32Vdc, flange PN10DN15, sinter filter, Certificate of conformity included.

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

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