

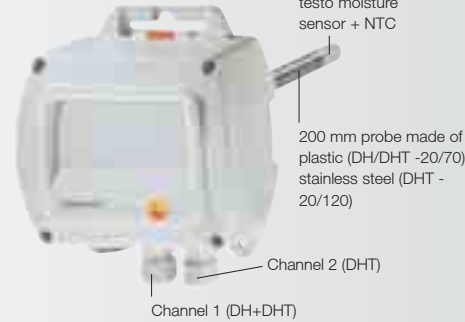


hygrotest 600: Humidity transmitter for air conditioning and process

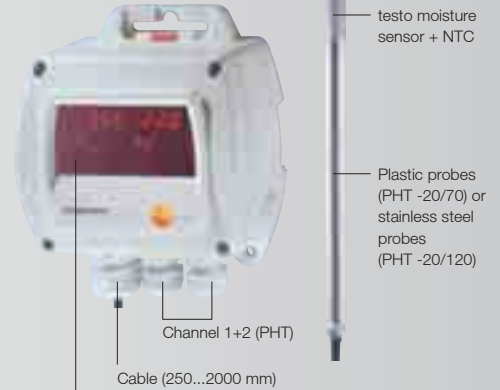
W - Wall mounting



D - Duct mounting



P - Probe with cable



Wide selection of displays (optional, also for W/D versions)
User menu via 3 interior buttons

All hygrotest humidity transmitters are custom-configured.

Please choose the solution suited to you from the options below, for example a hygrotest 600 with a probe on a cable, standard cable length 2 metres, standard probe length 210 mm, Teflon filter, H5 display, -30 to +50 °C td (dewpoint) as output channel 1, -20 to +120 °C as output channel 2.

This results in the following order code:

hygrotest 600 PHT -20/120 / C1 / D1 / G3 / H5 / K2 / -30 / 50 / L2 / M1

0555 0600 hygrotest 600

Versions

Wall-mounted, output %RH	WH
Wall-mounted, outputs %RH + T	WHT -20/70
Duct-mounted, output %RH	DH
Duct-mounted, outputs %RH + T	DHT -20/70
Duct-mounted, outputs %RH + T	DHT -20/120
Probe version, outputs %RH + T	PHT -20/70
Probe version, outputs %RH + T	PHT -20/120

Probe and cable length

Standard probe length (W: 65 mm, D: 200 mm, P: 210 mm)	C1
Special length stainless steel probe (DHT -20/120: 100 to 800 mm) (PHT -20/120: 150 to 800 mm)	C2
Standard cable length (P versions only, 2 m)	D1
Special cable length (0.25 to 2 m, P versions)	D2
Special cable length 5 m (PHT)	D2

Filters/Protective caps

Stainless steel sintered cap	G1
Metal wire protective cap	G2
Teflon sintered filter	G3
Metal protective cap, open	G4
Plastic cap (ABS), open	G5

W DH/DHT/PHT

Scaling channel 2

M1	Stand. scale chann. 2 (4 to 20 mA = -20 to 70/120 °C)
M2	Spec. scale chann. 2 (4 to 20 mA = min...max* + N1 °C (e.g. "M2 30...60 N2" for 30 to 60 °F) N2 °F

Scaling channel 1

K1	Stand. scale chann. 1 (4 to 20 mA = 0 to 100 %RH)
K2	Spec. scale chann. 1 (4 to 20 mA = min...max* + L1 %RH (e.g. "K2 20...80 L1" for "20...80 %RH) L2 dewp. °C L3 dewp. °F

* Please name scaling limits!

Display versions

	H1	H2	H3	H4	H5	H6
Transmitter-fed display	x		x			
External display supply		x		x	x	x
2 x 2 relay outputs					x	x
Analog outputs	x	x		x	x	x
RS 485			x	x	x	



In critical air conditioning applications, it is crucial that moisture and temperature are measured accurately and reliably over long periods.

hygrotest 600

testo 600 is a professional standard instrument in industrial processes and in air conditioning engineering, where long-term stability* plays an important part. The different designs enable wall-mounting for measurements in rooms, duct-mounting for measurements in ducts and the positioning of the probe up to 5 m from the housing (connected by a cable). Dewpoint temperature can be displayed instead of relative humidity.

Technical data: hygrotest 600

Housing:	
Material:	ABS, colour grey (RAL 7035)
Size:	130 x 140 x 52 mm
Screws:	2x M16 x 1.5 (ABS)
Ambient temperature:	-10 to +70 °C
Storage temperature:	-40 to +80 °C
Protection class:	IP 65
Probe:	
Moisture:	Testo moisture probe
Temperature:	NTC
Measuring range:	
Moisture:	0...100 %RH ¹
Temperature:	Version Application range temperature
	600 WH -
	600 WHT -20/70 -20 to +80 °C (scaling up to +70 °C)
	600 DH -
	600 DHT -20/70 -20 to +80 °C (scaling up to +70 °C)
	600 DHT -20/120 -20 to +120 °C
	600 PHT -20/70 -20 to +80 °C (scaling up to +70 °C)
	600 PHT -20/120 -20 to +120 °C
Process pressure:	atmospheric, except DHT/PHT 120 °C up to 4 bar at +10 to +40 °C
Measurement inaccuracy:	
Moisture:	± 2 %RH (in range 0 to 90 %RH), ± 3 %RH (90 to 100 %RH)
Temperature:	± 0.3 °C (-20 to +50 °C), 1.5% of meas. (> 50 °C)
Analog outputs:	
Moisture and temperature:	4 to 20 mA (in 2 wire technology)
Analog output moisture:	
Resolution:	0.02 mA
Drift:	0.001 mA/K
Analog output temperature:	
Resolution:	0.02 mA
Drift:	0.003 mA/K
Additional outputs:	
2 x 2 switched outputs	Optional in combination with display H5 or H6
Digital output	RS 232 output
	RS 485 output in combination with display H3, H4, or H5
Electrical supply:	
Electrical supply:	24 V DC (10...30 V DC)
Electrical supply display H1:	minimum 20 V DC
Max. load:	100 Ω at 10 V, 500 Ω at 24 V
Max. load with display H1:	50 Ω at 20 V
Typical temperature dependency of outputs:	± 0.002 mA/°C (at 25 °C)
Reaction time:	t90 approx. 10 to 20 s
EMC:	according to guideline 89/336 EEC

All data are based on a nominal temperature of +25 °C.

Probes: (Diameter 12 mm)

Version	Material	Length incl. Protective cap	min./max. Probe length	Probe cap Standard
600 WH	PC	65 mm	-	ABS slit
600 WHT -20/70	PC	65 mm	-	ABS slit
600 DH	PC	200 mm	-	Stainless steel sintered cap
600 DHT -20/70	PC	200 mm	-	Stainless steel sintered cap
600 DHT -20/120	Stainless steel	200 mm	100/800 mm	Stainless steel sintered cap
600 PHT -20/70	PC	100 mm	-	Stainless steel sintered cap
600 PHT -20/120	Stainless steel	210 mm	150/800 mm	Stainless steel sintered cap

	Channel 1	Channel 2
Parameter	%RH, °Ctd, °Ftd	T
Range	0 to 100% ¹	-20 to +70/120 °C
Output	4 to 20 mA	4 to 20 mA
	Free scaling	Free scaling
	e.g. 20 to 100%	e.g. 10 to 40 °C

* For continuous application in high moisture range > 90 %RH, use hygrotest 650 PHT or 650 HP.