

DT722

BENEFITS

- Relative humidity, temperature measurement and dew point
- Designed for accurate measurement in a harsh environment
- Stainless steel housing
- Long term stability: ± 1 %rh over 12 months
- Withstands temperatures up to 150 °C (300 °F)

APPLICATIONS

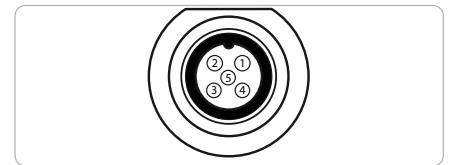
- HVAC
- Heating, ventilation, air conditioning
- Food industry
- Pharmaceutical industry
- Printing and paper industries



ELECTRICAL CONNECTIONS

Connections		
Cable	Pin	
White	Pin 1	Supply + 8...32 VDC
Yellow	Pin 2	Output 2 = Temp 4...20 mA (max. 500 Ω)
Brown	Pin 3	Not connected (for calibration only)
Green	Pin 4	Output 1 = RH 4...20 mA (max. 500 Ω)
	Pin 5	Not connected (for calibration only)

Note: Both RH and T need to be connected in order for the T output to work.



Note: Even though the DT722 has a 5 pin connector, the standard connection cable (A000031) only has four pins/wires. However, only three pins (1, 2 and 4) are needed to connect the DT722.

ACCESSORIES AND SPARE PARTS

Order Code	Description
Protection cap	
A000002	19 mm (0.75") Slotted protection cap black
Filter	
A000014	19 mm (0.75") PVDF filter
A000015	19 mm (0.75") PVDF filter w/ protection cap black
A000021	19 mm (0.75") Mesh filter w/ protection cap black
A000025	19 mm (0.75") Arrow 5 μm SS sintered filter
A000027	19 mm (0.75") connector, no cable, w/screw terminal
Cable	
A000030	Single plug, without cable
A000030-XX	19 mm (0.75") connector / cable (price per meter)
A000031	19 mm (0.75") connector with 2 m (6.5') cable
A000032	19 mm (0.75") connector with 5 m (16') cable
A000040	Metal foil filter 2 μm with protective cap, black
A000042	Oleophobic foil filter 0.7 μm with black protective cap
Mounting	
A000110	3/4" NPT SS adj. fitting for SS probes
A000100	Al mounting flange for Ø19 mm (0.75") SS probes (outside Ø80 mm (3.15"))

TECHNICAL INFORMATION

Performance	
Measurement range (RH)	0...100 %rh
Measurement range (T)	-40...150 °C (-40...302 °F)
Accuracy @ 25 °C (77 °F) humidity	< ±2 %rh (5...95 %rh)
Accuracy @ 25 °C (77 °F) temperature	±0.2 °C (±0.36 °F) typical
Stability – RH sensor	±1 %rh/year
Response time – RH sensor	<10 sec typical (for 90 % of the step change)
Electrical specifications	
Output signal	4...20 mA
Supply voltage	8...32 V DC
Supply voltage influence	±0.01 %rh/V typical
Operating humidity	
Operating humidity probe, housing, storage	10...95 %rh (non-condensing)
Operating temperatures	
Probe	-40...150 °C (-40...302 °F)
Housing	-20...70 °C (-4...158 °F)
Storage	-30...75 °C (-22...167 °F)
Mechanical specifications	
Ingress protection	IP65 (NEMA 4 level)
Housing material	Stainless steel
Weight	200 mm/800 g (7.87"/28.22 oz)
	300 mm/900 g (11.81"/31.75 oz)
	500mm/1040 g (19.69"/36.68 oz)
	900 mm/1412 g (35.43"/49.80 oz)
Electrical connections	5 pin, M12

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