



Humidity and temperature transmitter

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 + 832 VDC	
Yellow	Pin 2	Output 2 = Temp 420 mA (max. 500 Ω)	
Brown	Pin 3	Not connected (for calibration only)	
Green	Pin 4	Output 1 = RH 420 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

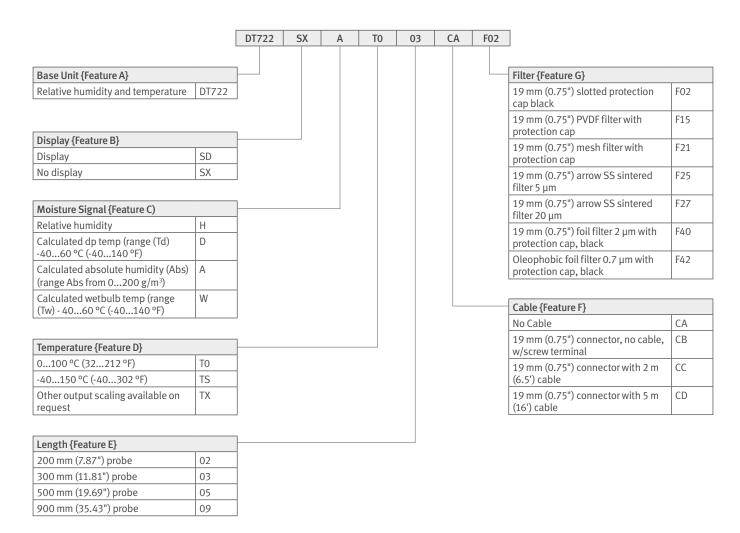
Order Code	Description		
Protection cap			
A000002	19 mm (0.75") Slotted protection cap black		
Filter			
A000014	19 mm (0.75") PVDF filter		
A000015	19 mm (0.75") PVDF filter w/ protection cap black		
A000021	19 mm (0.75") Mesh filter w/ protection cap black		
A000025	19 mm (0.75") Arrow 5 μm SS sintered 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"))		

Order Code

To get an order code that contains all the important information, the relevant features should be selected from the tables below and the ordered in sequence (starting with the basic model): "Feature A" + "Feature B" + "Feature C" + "Feature D" + "Feature E" + "Feature F" + "Feature G"

Example: DT722 + SX + A + T0 + 03 + CA + F02

Relative humidity and temperature transmitter without digital display. Output signals for absolute humidity and temperature (0...100 °C). Probe length is 300 mm. Without mating connector and without cable. 19 mm open protective cap in black.



Compatibility

- DT722 Transmitters are **not** compatible with Rotronic HC2A probes
- The only compatible accessories and spare parts like filters, protection caps, mounting clips etc. are listed here.
- In case of insecurity, please contact your local Rotronic partner.





Technical Information

Performance				
Measurement range (RH)	0100 %rh			
Measurement range (T)	-40150 °C (-40302 °F)			
Accuracy @ 25 °C (77 °F) humidity	< ±2 %rh (595 %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	420 mA			
Supply voltage	832 V DC			
Supply voltage influence	±0.01 %rh/V typical			
Operating humidity				
Operating humidity probe, housing, storage	1095 %rh (non-condensing)			
Operating temperatures				
Probe	-40150 °C (-40302 °F)			
Housing	-2070 °C (-4158 °F)			
Storage	-3075 °C (-22167 °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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