

DT722

Rugged Industrial Relative Humidity and Temperature Transmitter, Duct Mount



The DT722 is a rugged industrial relative humidity and temperature transmitter designed for process applications where accurate, stable measurement and control of humidity and temperature is required.

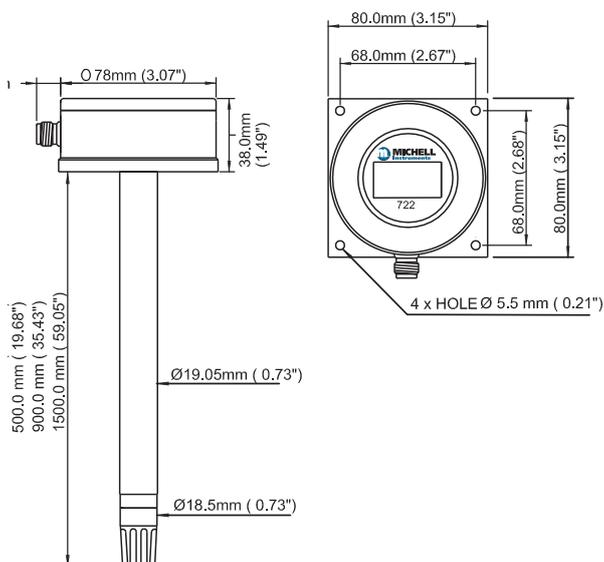
Highlights

- Designed for accurate measurement in a harsh environment
- Can withstand temperatures up to 150°C (300°F)
- Stainless steel housing
- Calculated moisture signal output, optional

Technical Specifications

Performance	
Measurement range (RH)	0–100% RH
Measurement range (T)	-40 to +150°C (-40 to +302°F)
Accuracy at 25°C (77°F) Humidity	<±2% RH (5-95% RH)
Accuracy at 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 output/input	
Output signal	4–20 mA
Supply voltage	8–35 V DC
Supply voltage influence	±0.01% RH/V typical
Operating conditions	
Operating temperature	
Probe	-40 to +150°C (-40 to +302°F)
Housing	-30 to +70°C (-22 to +158°F)
Storage	-40 to +75°C (-40 to +167°F)
Mechanical specification	
Ingress protection	IP65 (NEMA 4 level)
Housing material	Stainless steel
Weight	200mm: 800g (7.87": 28.22oz) 300mm: 900g (11.81": 31.75oz) 500mm: 1040g (19.69": 2.29lb)
Electrical connections	4 pin, M12

Dimensions



Accessories and Spare Parts

19mm (0.75") Slotted protection cap black	A000002
19mm (0.75") PVDF filter	A000014
19mm (0.75") PVDF filter w/ protection cap black	A000015
19mm (0.75") Mesh filter w/ protection cap black	A000021
19mm (0.75") Arrow SS sintered filter 5µm / 10µm / 20µm	A000025/26/27
19mm (0.75") connector, no cable, w/screw terminal	A000030
19mm (0.75") Connector, with cable (customer spec length)	A000030XM
19mm (0.75") connector with 2m (6.5') cable	A000031
19mm (0.75") connector with 5m (16') cable	A000032
19mm (0.75") Foil filter 2µm w/protection cap black	A000040
19mm (0.75") Oleophobic foil filter 0.7µm with protection cap black	A000042
19mm (0.75") Foil filter 1.5µm w/protection cap black	A000044
3/4" NPT SS adj. fitting for SS probes	A000100
Al mounting flange for ø19mm (0.75") SS probes (outside ø80mm (3.15"))	A000110
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	HKC

Electrical Connections

Connections		
Cable	Pin	
White	Pin 1	Output RH +
Brown	Pin 3	Output RH -
Green	Pin 4	Output T +
Yellow	Pin 2	Output T -
Connect RH + with T + by user		

Ordering Codes

To construct the order code, select the relevant feature from the tables below, starting with the base model, which is {Feature A} and then add on options to create a string: {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}+{Feature F}+{Feature G}

Order example: DT722+SX+A+HT0+03+CA+F02

RH & temperature transmitter DT722, no display, Output 1 - calc absolute humidity, Output 2 - temp output 0 to +100°C (+32 to +212°F), 300mm (11.81") probe length, no cable, 19mm slotted protection cap black

