

DT722

Rugged Industrial Relative Humidity and Temperature Transmitter

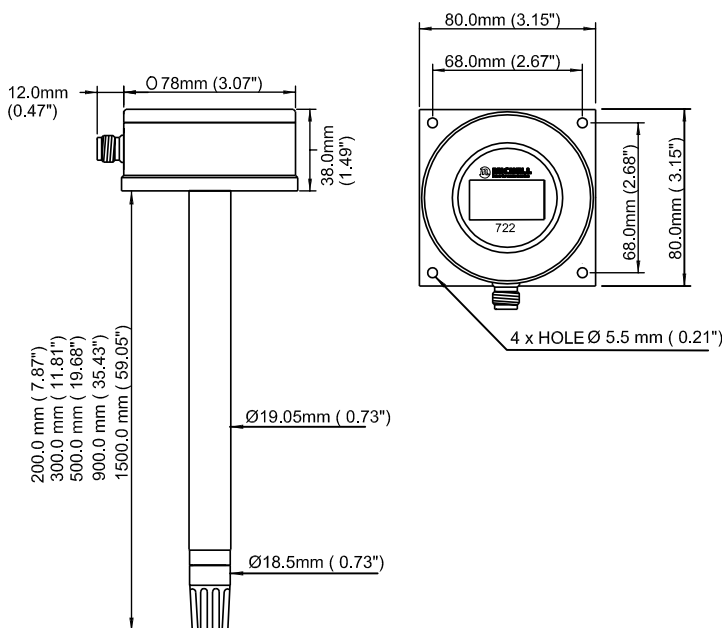


The DT722 is a rugged industrial relative humidity and temperature transmitter designed for process applications where accurate, stable measurement and control of humidity and temperature is required.

Highlights

- Designed for accurate measurement in a harsh environment
- Can withstand temperatures up to 150°C
- Stainless steel housing

Dimensions

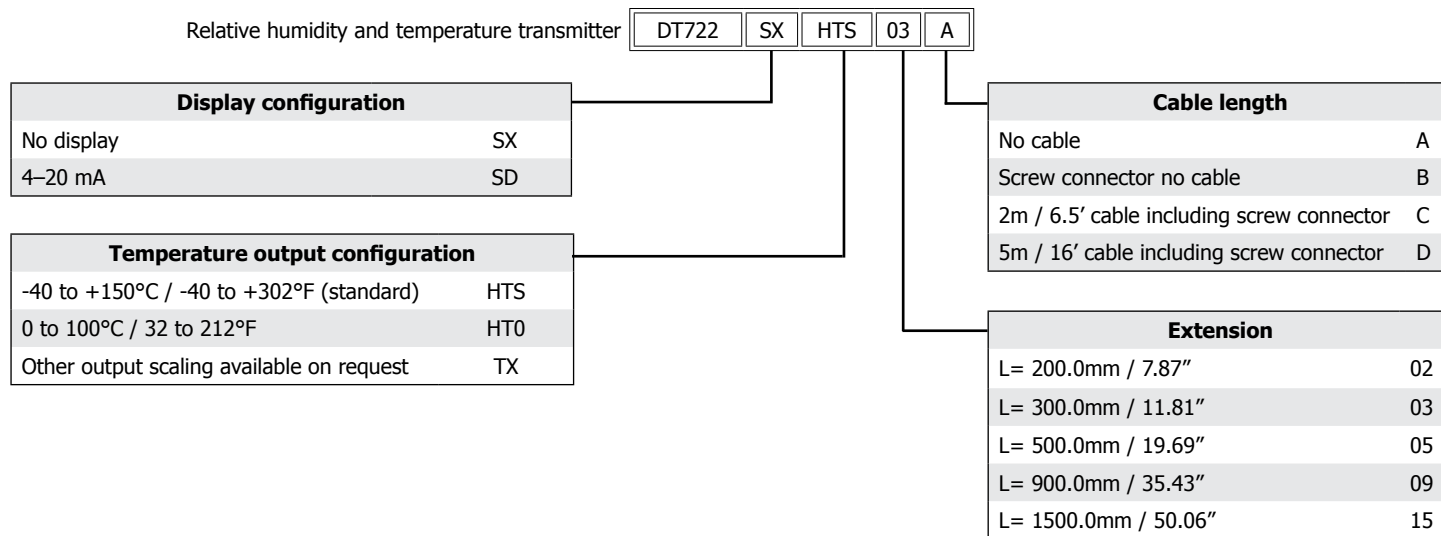


| Technical Specifications | |
|---|--|
| Performance | |
| Measurement range (RH) | 0–100% RH |
| Measurement range (T) | -40 to +150°C / -40 to +302°F |
| Accuracy at 25°C / 77°F Humidity | <±2% RH (5-95% RH) |
| Accuracy at 25°C / 77°F Temperature | ±0.2°C / ±0.36°F typical |
| Stability – RH Sensor | ±1% RH/year |
| Response time – RH Sensor | <10 sec typical (for 90% of the step change) |
| Electrical output/input | |
| Output signal | 4–20 mA signal |
| Supply voltage | 8–35 VDC |
| Supply voltage influence | ±0.01 % RH/V typical |
| Operating conditions | |
| Operating humidity Probe, Housing, Storage | 10–95% RH (non-condensing) |
| Operating temperature Probe Housing Storage | -40 to +150°C / -40 to +302°F -30 to +70°C / -22 to +158°F -40 to +75°C / -40 to +167°F |
| Mechanical specification | |
| Ingress protection | IP65 |
| Housing material | Stainless Steel |
| Weight | DT722 200mm: 800g / 7.87": 28.22oz DT722 300mm: 900g / 11.81": 31.75oz DT722 500mm: 1040g / 19.69": 2.29lb |
| Electrical connections | 4 pin, M12 |

| Accessories and spare parts | |
|---|------------------------|
| Electrical connector, no cable | A000030 |
| Electrical connector, 2m / 6.5' cable | A000031 |
| Electrical connector, 5m / 16' cable | A000032 |
| Slotted protection cap, black (standard) | A000002 |
| Wire mesh filter with protection cap, black | A000021 |
| PVDF filter | A000014 |
| PVDF filter with protection cap, black | A000015 |
| Stainless steel sintered filter 5/10/20 µm | A000025/26/27 |
| Foil filter 2µm with black protection cap | A000040 |
| Foil filter 1.5µm with black protection cap | A000044 |
| Aluminum mounting flange | A000110 |
| 3/4" NPT Adjustable fitting | A000100 |
| 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 | 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 | | |

Order codes



Example: DT72 2 SX HT2 03 A

Relative humidity and temperature transmitter DT722, 2% accuracy, -40 to +150°C / -40 to +302°F (standard) temperature range, 300.0mm / 11.81" probe, no display. No cable.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: DT722_97191_V1_UK_1009