DT269

Relative Humidity & Temperature Transmitter



The DT269 transmitter has a I7000 HYGROSMART sensor. Thanks to this solution, the sensor can be changed on site quickly and simply, providing greatly reduced maintenance costs. The transmitter does not need recalibration after the sensor is changed.

Highlights

- Designed for accurate measurement in a controlled environment
- Based on the interchangeable Hygrosmart module
- Output signal configurable on request
- Linearization for a specific isotherm on request

Accessories and spare parts			
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		
Aluminum mounting flange for fixing probe	FLA019		
HYGROSMART without Pt100 output	17000.0		
HYGROSMART with Pt100 output	17000.1		
Stainless steel sintered filter	H4		
Noryl cap with polyester filter/PTFE	Z 2		

Technical Specifica	tions				
Performance					
Measurement range (RH)	0-100% RH				
Measurement range (T)	-20 to +80°C / -4 to +176°F				
Accuracy at 23°C / 73°F Humidity	<±2% RH (5–95% RH)				
Accuracy at 23°C / 73°F Temperature	Pt100 1/3 DIN direct $\pm 0.2^{\circ}\text{C}$ / $\pm 0.36^{\circ}\text{F}$ Current output $\pm 0.3^{\circ}\text{C}$ / $\pm 0.54^{\circ}\text{F}$				
Stability - RH Sensor	<±1% RH/year				
Response time – RH Sensor	<10 sec typical (for 90% of the step change)				
Electrica	l output/input				
Output signal (RH) configurable on request	4–20 mA 0–1 V, 0–5 V, 0–10 V				
Output signal (T) configurable on request	4–20 mA 3-wire 1/3 DIN Pt100 direct 0–1 V, 0–5 V, 0–10 V				
Supply voltage	Output 4–20 mA: Output 0–10 V: Output 0–5 V: Output 0–1 V:	V+ = 12-30 VDC V+ = 15-30 VDC V+ = 10-30 VDC V+ = 8-30 VDC			
Load resistance	Output 4–20 mA: Output 0–10 V: Output 0–5 V: Output 0–1 V:	Rload < (Uv-9)/0.02 R > 10 k Ω R > 5 k Ω R > 1 k Ω			
Current consumption	2 x 20 mA max	'			
Operati	ng conditions				
Operating humidity Probe Housing, Storage	0–100% RH 0–98% RH (non-condensing)				
Operating temperature Probe Housing Storage	-30 to +85°C / -22 to +185°F -30 to +70°C / -22 to +158°F -40 to +70°C / -40 to +158°F				
Mechanic	al specification	1			
Ingress protection	IP65	IP65			
Material	PPO + POM				
Dimensions Housing Probe	80 x 80 x 34.5mm / 3.14 x 3.14 x 1.35" L=85/178mm, ø19mm L=3.35/7.01", ø 0.75"				
Weight	100g / 3.53oz				
Electrical connections	Screw terminals				

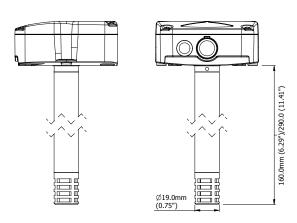
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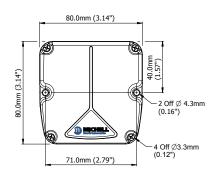
www.gilwoo.co.kr giltron@chol.com



DT269

Dimensions





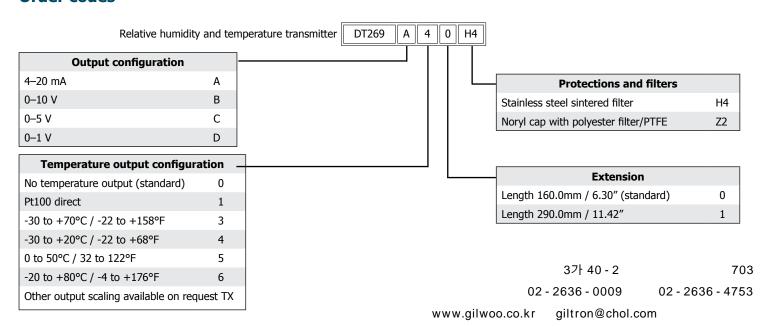
Electrical Connections

Version mA output and Pt100 direct			
Pin 1 Output RH +			
Pin 2 Output RH -			
Pin 3 ——			
Pin 4 ———			
Pt100 direct			
Pin 5 ———			

Version mA output for RH and Temperature					
Pin 1	Output temperature +				
Pin 2	Output temperature -	Warning: Temperature channels Pin 1 and Pin 2			
Pin 3	Output RH +	must be powered always.			
Pin 4	Output RH -				

Version V output and Pt100 direct		Version V output for RH and Temperature	
Pin 1	Power supply V+	Pin 1	Power supply V+
Pin 2	Common ground	Pin 2	Common ground
Pin 3	Output RH +	Pin 3	Output Temperature +
Pin 4	Pt100 direct	Pin 4	Output RH +
Pin 5	Pri 100 direct		

Order codes



Example: DT269 A 4 0 H4

Relative humidity and temperature transmitter DT269 with 4–20 mA humidity signal, 160.0mm / 6.30" extension, filter, -30 to +20 °C / -22 to +68 °F temperature range.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: DT269_97188_V1_UK_1009

