DT282

Digital Relative Humidity and Temperature Transmitter for Duct Installation



The DT282 relative humidity transmitter includes the interchangeable HYGROSMART module. The interchangeable module lets you recalibrate the transmitter simply by replacing the sensor head with the HYGROSMART module. As a result, maintenance costs are greatly reduced and machine down-time is minimized.

Highlights

- Analog and digital output standard
- Based on the interchangeable Hygrosmart module
- Analog output signals selectable through software
- Metric or US measurement units selectable through software

Technical Specifications			
Performance			
Measurement range (RH)	0-100% RH		
Measurement range (T)	-22 to +160°F / -30 to +70°C		
Accuracy at 23°C / 73°F Humidity	<±2% RH (5–95% RH)		
Accuracy at 23°C / 73°F Temperature	±0.72°F / ±0.4°C		
Stability - RH Sensor	<±1% RH/year		
Response time – RH Sensor	<10 sec typical (for 90% of the step change)		
Electrical output/input			
Output signal	0–1 VDC, 0–5 VDC, 0–10 VDC 0–20 mA, 4–20 mA, RS485		
Supply voltage	$15 \le VAC \le 27 / 18 \le VDC \le 38$		
Load resistance	Current output: R \leq 500 Ω		
Power consumption	1.7 W		
Operating conditions			
Operating humidity Probe, Housing, Storage	0-100% RH		
Operating temperature Probe Housing Storage	-25 to +185°F / -30 to +85°C -25 to +160°F / -30 to +70°C -40 to +160°F / -40 to +70°C		
Mechanical specification			
Ingress protection	IP67		
Material Housing Probe	Aluminum die casting AISI 316		
Dimensions Housing Probe	4.72 x 4.72 x 1.94" / 120 x 120 x 49.5mm L=3.54", ø 0.71" / L=90mm, ø18mm		
Weight	16oz / 450g		
Electrical connections	Screw terminals		

Accessories and spare parts

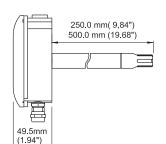
You can check your hygrometer with the control kit HKC which is based on the principle of non-saturated salt solutions. Refer to technical data sheet CONTROL KIT	Control Kit HKC
Aluminum mounting flange for fixing probe	FLA019
Cable USB for configuration "DIGICOR" (USB/TTL)	F035263
RS422/485 to PC (RD232) converter	330185
Hygrosmart with Pt100	17000.1
AISI 316 cap with stainless steel mesh filter	K6
Stainless steel sintered filter	H2
Stainless steel sintered filter with teflon coating	J2
Stainless steel cap with polyester filter/PTFE	Z 6

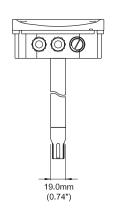


DT282

Dimensions

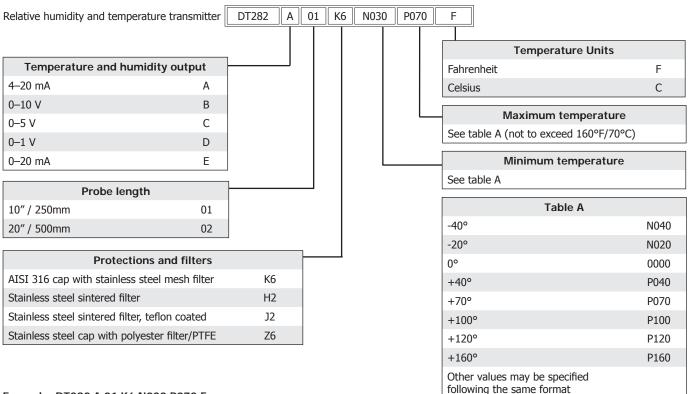






Electrical Connections Pin V+ 1 2 V -3 RS485 output Ground 4 Ground 5 Output Channel 1 Temperature 6 Output Channel 1 Ground 7 Output Channel 2 RH 8 Output Channel 2 Ground 9 RS485 Data+ 10 RS485 Data-11 Not connected 12 Not connected 13 Not connected) 14 Not connected) Do not connect V - (pin 2) to Ground

Order codes



Example: DT282 A 01 K6 N030 P070 F

Relative humidity and temperature transmitter DT282 with 4-20 mA 2-wire humidity signal, stainless steel probe 10" / 250mm length, with filter, -30 to +70°F temperature range. In this example, the 4mA temperature signal is set for -30F and the 20mA is set for +70F.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: DT282_1001US_P



Process Measurement & Controls, Inc. Email: sales@pmc1.com

Michell Instruments RH Web: www.michell.com/us/rh

11 Old Sugar Hollow Road Danbury, CT 06810 USA Fax: 203-743-2051

Tel: 203-792-8686

Represented by: