

VAISALA



DMT143 Order Form
G010018EN-A
Valid from May 2023

DMT143
Miniature Dew Point Transmitter

		1	2	3	4	5	6	7	8	9	10	11	12	13
Miniature Dew Point Transmitter		SPARE CODE										DMT143		
hardware	1 Mechanical Connection	ISO G1/2" Probe with DRYCAP®180D Sensor										G		
		NPT1/2" Probe with DRYCAP®180D Sensor										N		
		• ISO G1/2" Long Probe with DRYCAP180M Sensor ¹										L		
		• ISO G1/2" Long Probe with DRYCAP180S Sensor ¹										R		
		• NPT1/2" Long Probe with DRYCAP180M Sensor ¹										P		
		• NPT1/2" Long Probe with DRYCAP180S Sensor ¹										T		
		UNF 3/4"-16 Probe with DRYCAP®180D Sensor ¹										U		
settings	2 Digital Interface	Digital Output RS-485										1		
		RS-485 MODBUS RTU output ²										2		
		RS-485 MODBUS RTU output 19200 N 8 1										3		
	3 Analog Signal Output	None (Digital Output)										O		
		0...1 V, 1.1 V error state										A		
		0...5 V, 5.5 V error state										B		
		4...20 mA, 3.6 mA error state										C		
		1...5 V, 5.5 V error state										D		
		0...1 V, 0 V error state										E		
		0...5V, 0 V error state										F		
		4...20 mA, 0 mA error state										G		
		1...5 V, 0 V error state										H		
	4 Analog Output Scaling	None										0		
		-80...+20 °C Td										1		
		-80...+20 °C Tda, ambient P										2		
		-60...+60 °C Td										A		
		-50...+50 °C Td										B		
		-40...+60 °C Td										C		
		-70...+60 °C Td										D		
		-100...+20 °C Td										E		
		0...1000 ppmv										3		
		0...5000 ppmv										4		
		Analog output scaling free scaling ppm										P		
		free scaling Td °F, please define: _____										U		
		free scaling Td °C, please define: _____										X		
	5 Alarm LED Setpoint	Off, only fault indication										A		
		-40 °C Td										B		
		-20 °C Td										C		
		-10 °C Td										D		
		+3 °C Td										E		
		Other value, please define: _____										X		
	6 Process Gas	Process gas air										1		
		Air, No Purge ⁶										E		
	7 Pressure Setting for Optimized Accuracy	Air with Purge Interval 12h ⁵										F		
		1 bar Absolute										A		
		3 bar Absolute										B		
		5 bar Absolute										C		
		7 bar Absolute										D		
accessory	8 Cable	Custom, max 50 bar, please specify ³ _____ bar										X		
		No Cable										0		
		• Cable 0.3 m (1.0 ft) with Open Leads										2		
		HMP50Z032SP												
		• Cable 3.0 m (9.8 ft) with Open Leads										3		
		HMP50Z300SP												
		• Cable 5.0 m (16.4 ft) with Open Leads										4		
hardware	9 Sensor Protection	HMP50Z500SP										5		
		• Cable 10.0 m (32.8 ft) with Open Leads										6		
		225777SP												
		• 1.5 m (4.9 ft) Heavy Duty Cable with Open Leads										7		
		225229SP												
		• 3.0 m (9.8 ft) Heavy Duty Cable with Open Leads												
accessory	10 Accessories ONLY for ISO1/2" Thread	Standard sintered filter										A		
		DRW010335SP												
		Steel grid for vacuum application										S		
		HM47453SP												
		Sintered Stainless Steel Filter for Long Probe										1		
		HM47280SP												
		No Accessories										0		
		• Cable Adapter DMT242 to DMT143 ⁴										A		
		DMT242SC												
		• Basic sampling cell										1		
		DMT242SC2												
		• Sampling cell with 1/4" male connectors										2		
		DSC74SP												
		• Sampling Cell DSC74										3		
		DSC74BSP												
		• Two Pressure Sampling Cell DSC74B										4		
		DSC74CSP												
		• Two Pressure Sampling Cell with Coil DSC74C										5		
		DM240FASP												
		• Duct installation flange ISO G1/2"										6		
		MOUNTINGNUTSP												
		• Mounting Nut, ISO G1/2"										7		
		210662SP												
		• NPT 1/2" Adapter 210662										8		
	13 User Guide Language	No User's Guide										A		
		Multilingual guide										X		

- 1) Can only be ordered with digital or mA outputs
2) Default settings: 19200,N,8,2, address 240
3) If measuring in pressures above 20 bara (290 psia) or temperatures below 0°C, supply voltage must be 24...28VDC
4) Can be ordered with any mechanical connection
5) 12h purge interval preferred for DRYCAP180S sensor
6) Use only in processes validated to work without purge

NOTE: Selections in bold



Related Items

- Pressure Fitting ISO 1/2 to NPT 1/2
- Plug Kit Plug G 1/2 with Seal
- Plastic Case + Fillings 222 x 145 x 40
- USB Service Cable M8-4F, RS485
- M170 Connection Cable with M8-4F Connector
- Sealing ring set, 3 pcs D 21,5/28,6 x2,3 U-seal
- Plug 1/2 Tapered Thread CL- 2611-1/2 KK
- Shielded Cable, 3.0m, 4-pin M8, High Temp.
- Shielded Cable, 1.5m, 4-pin M8, High Temp.
- Loop Powered LED Display Nokeval 301
- Loop Powered LED Display Nokeval 302
- Cable Adapter DMT242 to DMT143
- Installation Flange ISO1/2
- Cooling/Venting Coil for Sampling Cell
- Sampling Cell DMT242SC with Female Connectors, inlet G3/8" & outlet G1/4" ISO
- Sampling Cell DMT242SC2 with Swagelok Connectors for 1/4" Tubing
- Sintered Filter Ø12 x 20
- Two Pressure Sampling Cell
- Two Pressure Sampling Cell with Coil
- Service Kit for DSC74 Sampling Cells
- Sampling Cell with Quick Connector and Leak Screw
- Sampling Cell UNF5/8
- Stainless Steel Filter
- Connection Cable, M8-4F - Open Wires, 0.32 m
- Connection Cable, M8-4F - Open Wires, 10 m
- Connection Cable, M8-4F - Open Wires, 3 m
- Connection Cable, M8-4F - Open Wires, 5 m
- Mounting Nut, ISO G1/2"
- Sampling Cell SC025NPT with Female Connectors, inlet 1/4"NPT & outlet 1/4"NPT

Part number

- 210662SP
- 218773
- 218964SP
- 219690
- 219980SP
- 221525SP
- 222507
- 225229SP
- 225777SP
- 226476
- 234759
- 247890SP
- DM240FASP
- DMCOILSP
- DMT242SC
- DMT242SC2
- DRW010335SP
- DSC74BSP
- DSC74CSP
- DSC74SERVICEKIT
- DSC74SP
- DSC74UNF58SP
- HM47453SP
- HMP50Z032SP
- HMP50Z1000SP
- HMP50Z300SP
- HMP50Z500SP
- MOUNTINGNUTSP
- SC-025NPT

