



VAISALA



DMT143 Order Form
G010018EN-A
Valid from May 2023

DMT143
Miniature Dew Point Transmitter

		SPARE CODE	DMT143	1	2	3	4	5	6	7	8	9	10	11	12	13			
hardware	1 Mechanical Connection	ISO G1/2" Probe with DRYCAP [®] 180D Sensor	G																
		NPT1/2" Probe with DRYCAP [®] 180D Sensor	N																
		<i>ISO G1/2" Long Probe with DRYCAP180M Sensor¹</i>	L																
		<i>ISO G1/2" Long Probe with DRYCAP180S Sensor¹</i>	R																
		<i>NPT1/2" Long Probe with DRYCAP180M Sensor¹</i>	P																
		<i>NPT1/2" Long Probe with DRYCAP180S Sensor¹</i>	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															
settings	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										
settings	4 Analog Output Scaling	None								O									
		-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								
settings	5 Alarm LED Setpoint	Analog output scaling free scaling ppm								P									
		free scaling Td °F, please define: _____								U									
settings	6 Process Gas	free scaling Td °C, please define: _____								X									
		Off, only fault indication								A									
accessory	7 Pressure Setting for Optimized Accuracy	-40 °C Td								B									
		-20 °C Td								C									
		-10 °C Td									D								
		+3 °C Td									E								
		Other value, please define: _____									X								
		Deactivated, LED always off									Z								
accessory	8 Cable	Process gas air								1									
		Air, No Purge ⁶								E									
		Air with Purge Interval 12h ⁵									F								
		1 bar Absolute									A								
		3 bar Absolute									B								
		5 bar Absolute									C								
		7 bar Absolute									D								
Custom, max 50 bar, please specify ³ _____ bar									X										
accessory	9 Sensor Protection	No Cable								0									
		Cable 0.3 m (1.0 ft) with Open Leads	HMP50Z032SP								2								
		Cable 3.0 m (9.8 ft) with Open Leads	HMP50Z300SP									3							
		Cable 5.0 m (16.4 ft) with Open Leads	HMP50Z500SP									4							
		Cable 10.0 m (32.8 ft) with Open Leads	HMP50Z1000SP									5							
		1.5 m (4.9 ft) Heavy Duty Cable with Open Leads	225777SP									6							
		3.0 m (9.8 ft) Heavy Duty Cable with Open Leads	225229SP									7							
accessory	10 Accessories ONLY for ISO1/2" Thread	Standard sintered filter	DRW010335SP																
		Steel grid for vacuum application	HM474533SP																
		Sintered Stainless Steel Filter for Long Probe	HM47280SP																
		No Accessories									0								
		Cable Adapter DMT242 to DMT143 ⁴										4							
		Basic sampling cell	DMT242SC									1							
		Sampling cell with 1/4" male connectors	DMT242SC2									2							
		Sampling Cell DSC74	DSC74SP									3							
Two Pressure Sampling Cell DSC74B	DSC74BSP									4									
Two Pressure Sampling Cell with Coil DSC74C	DSC74CSP									5									
Duct installation flange ISO G1/2"	DM240FASP									6									
Mounting Nut, ISO G1/2"	MOUNTINGNUTSP									7									
NPT 1/2" Adapter 210662	210662SP									8									
accessory	13 User Guide Language	No User's Guide																	
		Multilingual guide																	

- 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 are included in the prices of the basic versions. • Selections in <i>italic</i> are available at an extra price.
LINKS:	User Guides Datasheet Vaisala.com product page

Example of order code with typical settings:

DMT143	1	2	3	4	5	6	7	8	9	10	11	12	13
DMT143	G	1	C	1	B	1	A	3	A	O	A	S	X
DMT242 replacements													
Was DMT242A, DMT143	L	1	C	1	Z	1	A	0	1	A	A	S	X
Was DMT242B, DMT143	Z	1	C	A	Z	1	A	0	1	A	A	S	X
Was DMT242C, DMT143	R	1	C	B	Z	F	A	0	1	A	A	S	X



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

