



## DMT143 Miniature Dew Point Transmitter

	Miniature Dew Point Transmitter	SPARE CODE	DMT143	1	2	3	4	5	6	7	8	9	10	11	12	13	
hardware	1 Mechanical Connection	<b>ISO G1/2" Probe with DRYCAP180D Sensor</b> <b>NPT1/2" Probe with DRYCAP180D Sensor</b>	<b>G</b> <b>N</b>														
		• ISO G1/2" Long Probe with DRYCAP180M Sensor <sup>1</sup>	<b>L</b>														
		• ISO G1/2" Long Probe with DRYCAP180S Sensor <sup>1</sup>	<b>R</b>														
		• NPT1/2" Long Probe with DRYCAP180M Sensor <sup>1</sup>	<b>P</b>														
		• NPT1/2" Long Probe with DRYCAP180S Sensor <sup>1</sup>	<b>T</b>														
		<b>UNF 3/4"-16 Probe with DRYCAP180D Sensor <sup>1</sup></b>	<b>U</b>														
		<b>UNF 5/8"-18 Probe with DRYCAP180D Sensor <sup>1</sup></b>	<b>V</b>														
	settings	2 Digital Interface	<b>Digital Output RS-485</b> <b>RS-485 MODBUS RTU output <sup>2</sup></b>	<b>1</b>													
			<b>RS-485 MODBUS RTU output 19200 N 8 1</b>	<b>3</b>													
		3 Analog Signal Output	<b>None (Digital Output)</b>	<b>0</b>													
<b>0...1 V, 1.1 V error state</b>			<b>A</b>														
<b>0...5 V, 5.5 V error state</b>			<b>B</b>														
<b>4...20 mA, 3.6 mA error state</b>			<b>C</b>														
<b>1...5 V, 5.5 V error state</b>			<b>D</b>														
<b>0...1 V, 0 V error state</b>			<b>E</b>														
<b>0...5V, 0 V error state</b>			<b>F</b>														
<b>4...20 mA, 0 mA error state</b>			<b>G</b>														
<b>1...5 V, 0 V error state</b>	<b>H</b>																
4 Analog Output Scaling	<b>None</b>		<b>0</b>														
	<b>-80...+20 °C Td</b>	<b>1</b>															
	<b>-80...+20 °C Tda, ambient P</b>	<b>2</b>															
	<b>-60...+60 °C Td</b>	<b>A</b>															
	<b>-50...+50 °C Td</b>	<b>B</b>															
	<b>-40...+60 °C Td</b>	<b>C</b>															
	<b>-70...+60 °C Td</b>	<b>D</b>															
	<b>-100...+20 °C Td</b>	<b>E</b>															
	<b>0...1000 ppmv</b>	<b>3</b>															
	<b>0...5000 ppmv</b>	<b>4</b>															
5 Alarm LED Setpoint	<b>Off, only fault indication</b>	<b>A</b>															
	<b>-40 °C Td</b>	<b>B</b>															
	<b>-20 °C Td</b>	<b>C</b>															
	<b>-10 °C Td</b>	<b>D</b>															
	<b>+3 °C Td</b>	<b>E</b>															
	<b>Other value, please define: _____</b>	<b>X</b>															
	<b>Deactivated, LED always off</b>	<b>Z</b>															
	6 Process Gas	<b>Process gas air</b>	<b>1</b>														
		<b>Air, No Purge <sup>5</sup></b>	<b>E</b>														
		<b>Air with Purge Interval 12h <sup>5</sup></b>	<b>F</b>														
7 Pressure Setting for Optimized Accuracy	<b>1 bar Absolute</b>	<b>A</b>															
	<b>3 bar Absolute</b>	<b>B</b>															
	<b>5 bar Absolute</b>	<b>C</b>															
	<b>7 bar Absolute</b>	<b>D</b>															
	<b>Custom, max 50 bar, please specify <sup>3</sup> _____ bar</b>	<b>X</b>															
8 Cable	<b>No Cable</b>	<b>0</b>															
	• Cable 0.3 m (1.0 ft) with Open Leads HMP50Z032SP	<b>2</b>															
	• Cable 3.0 m (9.8 ft) with Open Leads HMP50Z300SP	<b>3</b>															
	• Cable 5.0 m (16.4 ft) with Open Leads HMP50Z500SP	<b>4</b>															
	• Cable 10.0 m (32.8 ft) with Open Leads HMP50Z1000SP	<b>5</b>															
	• 1.5 m (4.9 ft) Heavy Duty Cable with Open Leads 225777SP	<b>6</b>															
	• 3.0 m (9.8 ft) Heavy Duty Cable with Open Leads 225229SP	<b>7</b>															
9 Sensor Protection	<b>Standard sintered filter</b> DRW010335SP	<b>A</b>															
	<b>Steel grid for vacuum application</b> HM47453SP	<b>S</b>															
	<b>Sintered Stainless Steel Filter for Long Probe</b> HM47280SP	<b>1</b>															
10 Accessories ONLY for ISO1/2" Thread	<b>No Accessories</b>	<b>0</b>															
	• Cable Adapter DMT242 to DMT143 <sup>4</sup>	<b>A</b>															
	• Basic sampling cell DMT242SC	<b>1</b>															
	• Sampling cell with 1/4" male connectors DMT242SC2	<b>2</b>															
	• Sampling Cell DSC74 DSC74SP	<b>3</b>															
	• Two Pressure Sampling Cell DSC74B DSC74BSP	<b>4</b>															
	• Two Pressure Sampling Cell with Coil DSC74C DSC74CSP	<b>5</b>															
	• Duct installation flange ISO G1/2" DM240FASP	<b>6</b>															
	• Mounting Nut, ISO G1/2" MOUNTINGNUTSP	<b>7</b>															
	• NPT 1/2" Adapter 210662 210662SP	<b>8</b>															
13 User Guide Language	<b>No User's Guide</b> <b>Multilingual guide</b>	<b>A</b> <b>X</b>															

- 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

<b>NOTE:</b>	<b>Selections in bold are included in the prices of the basic versions.</b> • <i>Selections in italic are available at an extra price.</i>
<b>LINKS:</b>	<a href="#">User Guides</a> <a href="#">Datasheet</a> <a href="https://www.vaisala.com/product-page">Vaisala.com product page</a>

Example of order code with typical settings:

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

**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 SCO25NPT 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

