

Programming Panel							
Description	Run Mode	Programming Mode					
4 digit display Red	Shows value according to configuration.	Shows steps and data during configuration.					
Minus sign	Illuminates for negative readings.	Illuminates for negative values.					
Keyboard							
Setpoint 1 LED	Illuminates when setpoint 1 turns active.	Illuminates when setpoint 1 turns active.					
UP key	No application	Shows setpoint value. Increases value of active digit.					
SHIFT key	Displays maximum and mini- mum stored values. After 3s of pressing, sets maximum and/or minimum memorized value to current display value.	Shifts active digit to the next right digit.					
DATA/ENTER key	Changes to PRO mode.	Validates selected data and parameters. Moves one step forward in configuration menu. Changes to RUN mode.					
Setpoint 2 LED	Illuminates when Setpoint 2 turns active. Illuminates when Setpoint 2 turns active						
Free space for units label							

odel DPM2-AT-HL Application: pe J thermocouple input with 0.1°F resolu						Te
pe J thermocouple input with 0.1°F resolu ote: For additional configuration information		•	act com		Range	Input Impedance
	ion download the comple	te manual nom www.rutomationDire		Process Input	±20mA	<20Ω
Run Mode	E	NTER: Vertical displacement.	Thermocouple Wiring		±10V	2MΩ
Programming Mode. If total para		IP: Changes active digit.			±200V	2MΩ
 out has been enabled, dAtA will be instead of Pro Input Menu 	be displayed • s	HIFT: Horizontal displacement.	TERMINALS CN2	Sensor Excitation	Range	Maximum Measurement
, . ,				Potentiometer	100 1001-0	Current
	emperature input menu				100-100kΩ	<0.4mA
Process input menu			+TC -TC	Resistance	999.9Ω 9999Ω	2.3mA 230µA
E The	ermocouple input			nesisiance	535352 50kΩ	230µA 23µA
					RTD	Pt100 (3
	 I=Type J for this example Select 0.1°F resolution for this example 		nis example		Fixed Display Range / Resolution	11100 (0
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		for -238.0°F to 999.9°F whe and 0.1°F resolution is selec			Measurement current Maximum resistance per wire	1mA 40Ω (bala
oFS oFS	S: Offset provides compens	 sation for a known difference between tl	he temperature measured		Linearization	4052 (Dala
	by the sensor and the a				Coefficient	+
(<i>DD</i> ₋ <i>D</i>) Offs	fset value: ±99 for resoluti	ion of 1° or ± 9.9 for resolution of 0.1°. E	Enter 0.0 for this example.	Temperature		+
					Accuracy	
(5 <i>t</i> o r) Sav	ve Values				Thermocouple	J
<i>8888</i> Run	n Mode			Fixed Display Range / Resolution	-150.0°C to 999 -150°C to 110 -238.0°F to 999 -238°F to 201	
		Cold junction compensation range				
					Accuracy	
I DPM2-AT-2RL-HL Example	le Application:		4-wire with external excitation	ר 🗕		
DC input, 0.0 to 100.0 display, relay 1		activates on an increase to a display va	lue of	Conversion	Accuracy	
C input, 0.0 to 100.0 display, relay 1 er 5 sec. delay.	1 set for N.O. operation,	1	lue of TERMINALS CN2 TRANSDUCER	Conversion	Accuracy Technique	
C input, 0.0 to 100.0 display, relay 1 5 sec. delay.	1 set for N.O. operation, ion download the comple	ete manual from www.AutomationDire	TERMINALS CN2 TRANSDUCER ect.com 1 7 0-10V	Conversion	Accuracy Technique Resolution	
C input, 0.0 to 100.0 display, relay 1 5 sec. delay. r additional configuration information	1 set for N.O. operation, ion download the comple	ete manual from www.AutomationDire	lue of TERMINALS CN2 TRANSDUCER	Conversion	Accuracy Technique Resolution Conversion rate Range Type	
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Quick start guide: DPM2-AT-HL, DPM2-AT-2R-HL

	hnical Spec	ifications					
ut lance	Resolution	Accuracy					
Ω	2μΑ		±(0.1% rdg+15µA)				
Ω	1mV		±(0.1% rdg+6mV)				
Ω	20mV	±(0.1% rdg+0.1V)					
		24V±3V@30mA					
mum rement rent	Resolution		Accuracy				
mA	0.01% F.S.		±(0.1% rdg+0.05% F.S.)				
nA	0.1Ω	±(0.1% rdg+0.7Ω)					
μA	1Ω		±(0.1% rdg+6Ω)				
AL	10Ω		±(0.1% rdg+35Ω)				
t100 (3	wire)		Pt1000 (2 wire)				
		-200.0°C to 800.0 -200°C to 800° -328.0°F to 999.9 -328°F to 1472	°C / 1°C °F / 0.1°F °F / 1°F				
1mA			100µA				
40 Ω (bala	anced)		-				
		IEC 6075					
		0.00385 ±(0.15% rdg+0.5°C), t<-50°C ±(1% rdg+0.5°C) ±(0.15% rdg+0.9°F), t<-58°F ±(1% rdg+0.9°F)					
J		K	Т	N			
°C to 999.9°C / 0.1°C °C to 1100°C / 1°C °F to 999.9°F / 0.1°F		-150.0°C to 999.9°C / 0.1°C -150°C to 1200°C / 1°C -238.0°F to 999.9°F / 0.1°F	-150.0°C to 400.0°C / 0.1°C -150°C to 400°C / 1°C -238.0°F to 752.0°F / 0.1°F	-150.0°C to 999.9°C / 0.1° -150°C to 1300°C / 1°C -238.0°F to 999.9°F / 0.1°			
S°F to 201	2°F / 1°F	-238°F to 2192°F / 1°F -10°C to 60°C (14°	-238°F to 752°F / 1°F	-238°F to 2372°F / 1°F			
	±(0.1% rdg+		±(0.2% rdg+0.8°C)	±(0.1% rdg+0.6°C)			
	±(0.1% rdg+		±(0.2% rdg+1.5°F)	±(0.1% rdg+1.1°F)			
		Sigma-De					
		±16 bits					
		20 times per s					
		-9999 to +9999, selectable d 4 digit 14mm (0.					
		Relay 1, Rel	<i>p</i> -				
		50ms	ay 2				
		"- OUE" , "O	IUE"				
		100 ppm/					
		5 minute					
		23°C±5°	C				
switching switching switching sistance pe	g current (resistiv g power g voltage	8A at 250VAC / 2 e load)8A 8A 	0				
		≤10ms 265VDC (Recommended fusing)	34/250V DIN /1661)				
200 VAU	50/00 HZ UL 11-2		Jry2JUV, DIN 41001)				
		3W	2017				
		7.3Hz to 0.1 -20dB/De					
		-10°C to +60°C (14					
		-25°C to +85°C (-13					
		<95% @ 40°C	-				
		2000m					
IP65							
No corrosive gases permitted							
		CE					

• For additional information on this product download the complete manual from www.AutomationDirect.com • For additional technical support and questions, call our Technical Support team @ 1-800-633-0405 or 770-844-4200



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