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MADE IN TAIWAN

DP1001AM Automatic Temperature Scanner





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# **10 channels Temperature Scanner**

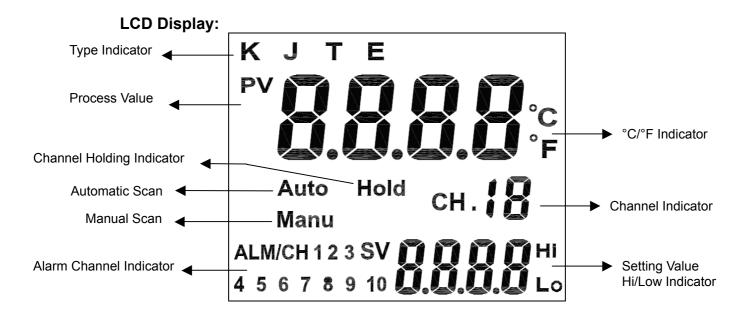
# **DP1001AM**

#### Features:

- \_ Large LCD with backlight displays PV and SV value.
- \_ Latching Hi/Low alarm 5A(250VAC) with manual reset.
- Each channel has individual, independent, and programmable alarm setpoint with alarm indicator.
- Multi-mode for setting Channel number, °C/°F, Auto/Manual, Scan rate, K/J/T/E type and Hi/Low
- \_ RS232 communication for computer interface.

#### **Specifications:**

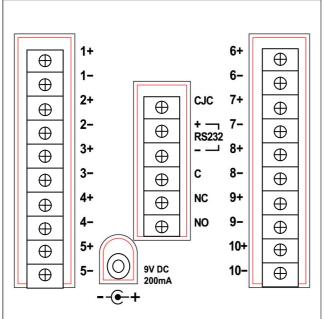
Range	Туре К	Туре Ј	Туре Т	Туре Е				
_	-58 ~ 2498	-58 ~ 1832	-184 ~ 752	-58 ~ 1382				
_	-50 ~ 1370	-50 ~ 1000	-120 ~ 400	-50 ~ 750				
Resolution	0.1(<1000), 1(>1	0.1(<1000), 1(>1000)						
Accuracy	0.15% of Reading ±1°C or 1.8°F							
Power	9V DC	9V DC						
Channel	10 channels							
RS232	Yes							
Relay	Hi/Low							
Scan rate	2 ~ 60 sec.							



#### Functions of Keyboard:

		s of Reyboard.
		Press to turn on or off the power. Press and hold to enter Basic Setting.
		<u> </u>
	1.	Press to keep monitoring the value of a certain channel
(HOLD SET B)		under automatically scan mode.
	2.	Press and hold to enter Hi/Low Setting.
		Switch channels under manually scan mode. Adjust values in Basic and Hi/Low Setting.
$\bigcirc$		
$\frown$	1.	Press to turn on the backlight for 10 minutes under
(RESET)		backlight-off mode.
$\mathbf{\bigcirc}$	2.	Press and hold to reset the alarm of each channel.

## Back Panel Display:



**All of the channel labels:** Each channel requires a positive and negative wire. This picture shows which channels represent which input terminals and if they are negative or positive.

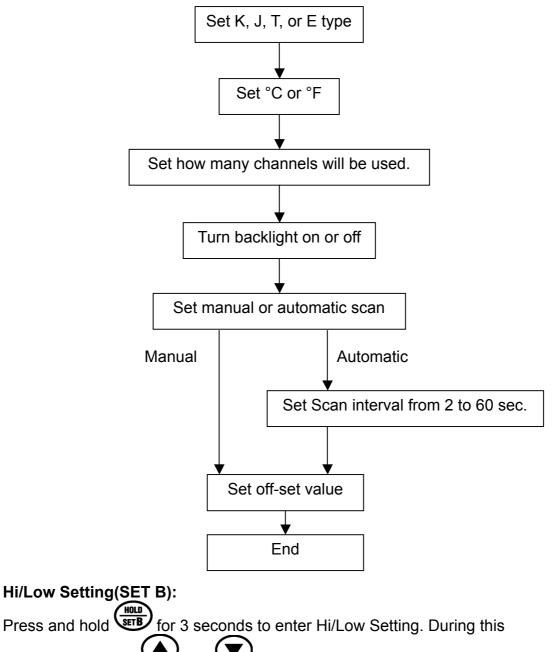
**RS232 port:** This is the port used when you want to hook up the Automatic Temperature Scanner to a computer.

C, NC, NO: Common, Normal Closed, Normal Open for relay.

9V DC/200mA: Please use an adaptor with 9V DC/200mA for input power.

## **Basic Setting(SET A):**

Press and hold  $\underbrace{\textcircled{0}}_{\text{STA}}$  for 3 seconds to enter Basic Setting. During this setting, ) and  $\bigcirc$  to adjust setting values. Press  $\textcircled{\textcircled{blue}}{\textcircled{BL}}$  to confirm please use setting values and enter next setting.



D to set "Hi" or "Low" and adjust the setting setting, please use and V values for each channel. Press to confirm and enter next setting.

#### Connect to PC: <System Requirement>

OS: Windows 2000, Windows XP, Windows Vista, Windows 7.

#### <Operations>

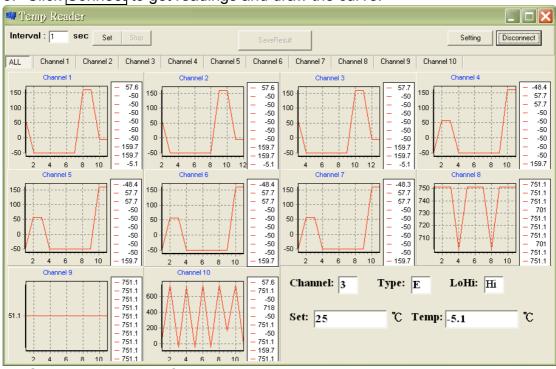
- 1. Copy "GOnDO\_Temp.exe" from the CD-ROM to a folder.
- 2. Double-click "GOnDO\_Temp.exe" to start the program.
- 3. Click setting button to set COM port in the Setup window.

SaveResult		Setting	Connect
el 5 Channel 6 Channel 7 Channel 8	Channel 9	Channel 10	
Channel 3		Channel 4	
Setup 🔀			
Settings			
Port			
Baud rate CDM3 CDM4			
Data bits 8			
Stop bits			
Parity None 💌			
Flow control None			
OK Cancel			

Choose the responding Port and then click  $\overline{OK}$ . In normal situation, other settings do not need to be changed.

4. Fill in desired measuring interval seconds, and click set.

👊 Temp Reade	er			
Interval : 1 s	ec Set	Stop		
ALL Channel 1	Channel 2	Channel 3	Channel 4	– Channel 5
0114				·



#### 5. Click Connect to get readings and draw the curve.

- 6. Click the small tab of each channel in the main window can enter a big window with detail reading information. Click tab **ALL** to back to the main window.
- 7. In each big window, click SaveResult will export the readings to .txt file.

	c	hannel 1									
					_	Time	Туре 3 Е	LoHi Hi	Set Temp -120	Read Temp	Unit C
						13:55:27		Hi	-120	-50.0	č
1 1					- 57.6	13:55:08		Hi	-120	-50.0	č
					- 57.6	13:55:07		Hi	-120	-50.0	č
			l			13:54:48		Hi	-120	-5.1	č
						13:54:47		Hi	-120	-5.1	ē
			ļ			- 13:54:28		Hi	-120	159.7	ċ
				·/···/···/··		- 13:54:27	7 E	Hi	-120	159.7	C
					- 159.7	13:54:08	3 Е	Hi	-120	-50.0	C
						- 13:54:07	7 E	Hi	-120	-50.0	C
						- 13:53:48	8 E	Hi	-120	-50.0	C
					50	- 13:53:47	7 E	Hi	-120	-50.0	C
								Hi	-120	-50.0	C
					50						C
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#### Note:

Please click Disconnect or close the program before turn off power or remove the RS-232 cable.

## WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

- 1. Purchase Order number under which the product was PURCHASED,
- 2. Model and serial number of the product under warranty, and
- 3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

- 1. Purchase Order number to cover the COST of the repair,
- 2. Model and serial number of the product, and
- 3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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