

## **APM Temperature** Meter





#### **CAUTION: Risk of Danger**

Read complete instructions prior to installation and operation of the unit



CAUTION: Risk of electric shock

Before installation, read the Safety Warnings overleaf.

#### Intended Use

Intended Use: The APM has been specifically designed for engineers requiring an effective way to monitor and display data. The APM accepts a range of electrical inputs (depending on the model) and displays the data on its integrated multi-format display. The APM has been designed for installation into electrical cabinets or display panels. Output models include two independent outputs that can be configured by the user to be either digital set-point outputs or 4-20mA monitor outputs.

## **Operating Specification**

Use the DIP switches to set the Temperature Meter bar graph range and annunciators to standard values. Use the software application to configure custom settings.

The switch positions are shown in the table where:

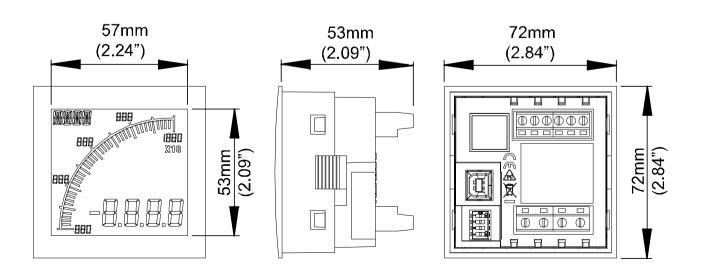
0 = OFF and 1 = ON.

Thermocouple Types	B, C, E, J, K, N, R, S, T	
Accuracy	0.25% plus Thermocouple Accuracy	



The DIP switches are on the back of the unit.

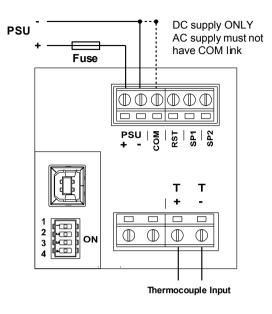
## Size



Size of the cutout in the panel: 68 x 68mm (2.68in) +0.7 -0mm

## **Wiring Diagrams**

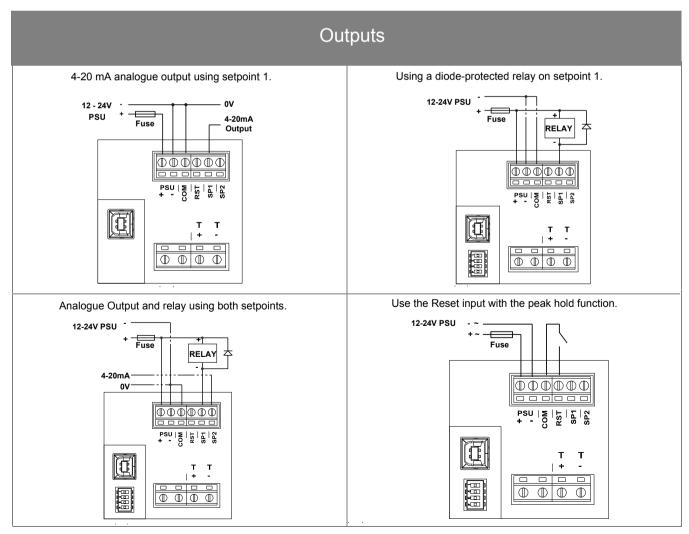
#### Thermocouple Input



#### **DIP Switches**

DIP switch settings:-

Switch	Туре	Thermocouple		Units	Display Scale		
1234		Min	Max		Min	Max	X10
0000	Custom						
1000	В	250	1820	ပ္	0	200	X10
0100	Е	-200	1000	°C	0	1000	
1100	J	-210	1200	ပ္	0	1200	
0010	K	-200	1372	°C	0	140	X10
1010	N	-200	1300	°C	0	140	X10
0110	R	-50	1768	°C	0	200	X10
1110	S	-50	1768	°C	0	200	X10
0001	T	-200	400	°C	0	400	
1001	В	482	3308	٩F	0	400	X10
0101	Е	-328	1832	٩F	0	200	X10
1101	J	-346	2192	٩F	0	220	X10
0011	K	-328	2502	°F	0	260	X10
1011	N	-328	2372	°F	0	240	X10
0111	R	-58	3214	°F	0	320	X10
1111	S	-58	3214	٩F	0	320	X10



You need the software to configure the setpoints and outputs.

## Safety Warnings



WARNING: INSTALLATION AND MAINTENANCE MUST BE CARRIED OUT BY SUITABLY QUALIFIED AND COMPETENT PERSONEL ONLY. HAZARDOUS VOLTAGES MAY BE PRESENT ON THE CONNECTION TERMINALS.



#### **INSTALLATION**

- Install this product in accordance with local regulations, codes and instructions.
- All fuses must be 0.5A / 250V Type F with a breaking capacity of 35A or greater.
- All conductors carrying hazardous voltage must have external switching or disconnect mechanisms fitted that provide at least 3 mm of contact separation in all poles.
- Signal cables connected to this device must not exceed 30 metres long.
- If signal cables are routed outside the building, install extra surge-protection devices.
- Power supply, current input, USB and all outputs: Observe maximum allowable voltages. All circuits connected to these connectors must be limited-energy and insulated by double/ reinforced insulation from mains voltages according to IEC 61010-1:2010



Failure to install or operate the unit in accordance with the above requirements may impair the electrical safety of the unit. Voltage measurements: An external UL recognized or listed overcurrent protection device (fuse or circuit breaker) must be fitted in-line with the voltage lead. Recommended fuse: 0.5A Type F with a breaking capacity of 35A or greater. Fuse voltage rating must be greater than the maximum voltage that will be applied to the meter.



#### **MAINTENANCE**

- Before cleaning, inspection or maintenance, isolate all power sources to the unit.
- There are no user-serviceable parts inside this unit. Never open the case.
- Inspect all external wiring connections at regular intervals.
   Replace any damaged wiring and tighten any loose connections.
- To clean the unit, use a dry cloth to wipe the casing.
- Take great care connecting the supply. If you connect power to the wrong terminals, it may destroy the unit.

# Specification

Environment		VALUE
Temperature - operating	Environment	VALUE
Temperature - storage		-10 to +60 dea C
Altitude   2000 metres   Relative Humidity (non-condensing) - Continuous   0 - 85 %   Relative Humidity (non-condensing) - Intermittent   0 - 95 %   Pollution Degree (IEC664)   2   IP rating (from the front)   IP65   Type 4 & Type 12   IP65   NEMA Rating (from the front)   IP65   Type 4 & Type 12   IP65   NEMA Rating (from the front)   IP65   Type 4 & Type 12   IP65   NEMA Rating (from the front)   IP65   Type 4 & Type 12   IP65   NEMA Rating (from the front)   IP65   Type 4 & Type 12   IP65   Type 14   Type 15   Typ		<del>-</del>
Relative Humidity (non-condensing) - Continuous         0 - 85 %           Relative Humidity (non-condensing) - Intermittent         0 - 95 %           Power population Degree (IEC664)         2           IP rating (from the front)         IP65           NEMA Rating (from the front)         Type 4 & Type 12           Power supply         1.6W           Input         12-24V AC/DC           Max Power         1.6W           Supply Frequency         DC & 50-400 Hz           Isolation         None           Display         None           Number of digits         4           Digit height         12 mm           Number of bar-graph segments         40           Number of starburst message characters         4           Backlight colours         Red, Green, White           LCD         Positive or negative           Digit update frequency         0.08 - 21 sec           Viewing angle         +/-70" Horizontal           Viewing angle         +/-70" Vertical           Open Collector Outputs         34 V           Max voltage (open collector outputs)         34 V           Max current (open collector outputs)         500 mA           Analogue Output         -20 mA           Co		
Relative Humidity (non-condensing) - Intermittent		0 – 85 %
Pollution Degree (IEC664)   2   IP rating (from the front)   IP65   IP65   Type 4 & Type 12		0 – 95 %
IP rating (from the front)		2
NEMA Rating (from the front)   Type 4 & Type 12	•	
Power supply	,	
Input		Type 4 & Type 12
Max Power   1.6W   Supply Frequency   1.6W   Supply Frequency   1.6W   1.6W   1.6D	•	
Supply Frequency Isolation  Display  Number of digits Digit height Number of bar-graph segments Number of starburst message characters Backlight colours LCD Positive or negative Digit update frequency Digit update frequency Digit update frequency Digit update frequency Doen Collector Outputs Max voltage (open collector outputs) Max current (open collector outputs) Analogue Output Output Accuracy Resolution Connections Thermocouple Inputs are referenced to PSU 0V. Appying additional voltages to Thermocouple inputs will give an incorrect reading and may damage the meter. Type Wire type Solid or Stranded Min. cable temperature rating Wire strip length  Wire strip length  Certification CE CULUs IEC 61010-1 In the Box APM Getting started & safety guide Sealing gasket Retaining clip Panel Cut-out: 68 x 68 mm (2.68 in) +0.7 -0 mm (0.02 in) Max pigt 12 mm Mundary and Adax and Adax and panel incorrect reading and Max panel incorrect reading elice Indicate the Box APM Getting started & safety guide Sealing gasket Retaining clip Panel Cut-out: 68 x 68 mm (2.68 in) +0.7 -0 mm (0.02 in) Max. panel thickness: 10 mm.  Dimensions:		
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Digit height  Number of bar-graph segments  Number of starburst message characters  Backlight colours  LCD  Digit update frequency  Digit update frequency  Digit update frequency  Newing angle  Poesitive or negative  O.08 – 21 sec  O.08 – 21 sec  Viewing angle  H-/-70° Horizontal  H-/-70° Vertical  Open Collector Outputs  Max voltage (open collector outputs)  Max current (open collector outputs)  Analogue Output  Output  4-20 mA  Accuracy  Resolution  Connections  Thermocouple Inputs are referenced to PSU OV. Appying additional voltages to Thermocouple inputs will give an incorrect reading and may damage the meter.  Type  Solid or Stranded  Min. cable temperature rating  Wire type  Min. cable temperature rating  Wire gauge  O.5-0.6Nm  (0.26" to 0.28")  O.5-0.6Nm  (4.42-5.31 lbf-in)  Certification  CE  CULus  IEC 61010-1  In the Box  APM  Getting started & safety guide  Sealing gasket  Retaining clip  Panel Cut-out: 68 x 68 mm (2.68 in) +0.7 -0 mm (0.02 in).  Max. panel thickness: 10 mm.		
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Number of starburst message characters  Backlight colours  LCD  Digit update frequency  Digit update frequency  Newing angle  Argraph update frequency  Viewing angle  Dopen Collector Outputs  Max voltage (open collector outputs)  Max current (open collector outputs)  Max current (open collector outputs)  Analogue Output  Output  Accuracy  Resolution  Thermocouple Inputs are referenced to PSU OV. Appying additional voltages to Thermocouple Inputs will give an incorrect reading and may damage the meter.  Type  Wire type  Min. cable temperature rating  Wire strip length  Wire strip length  Certification  CE  CULUs  In the Box  APM  Getting started & safety guide  Sealing gasket  Retaining clip  Panel Cut-out: 68 x 68 mm (2.68 in) +0.7 -0 mm (0.02 in).  Max. panel thickness: 10 mm.  Dimensions:		
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Max current (open collector outputs)  Analogue Output  Output  4-20 mA  Accuracy  Resolution  Connections  Thermocouple Inputs are referenced to PSU 0V. Appying additional voltages to Thermocouple Inputs will give an incorrect reading and may damage the meter.  Type  Screw Terminals  Wire type  Min. cable temperature rating  Wire strip length  Wire strip length  O.8mm² - 3.3mm² (0.26" to 0.28")  Wire gauge  Torque  Certification  CE  cULus  IEC 61010-1  In the Box  APM  Getting started & safety guide Sealing gasket Retaining clip  Panel Cut-out: 68 x 68 mm (2.68 in) +0.7 -0 mm (0.02 in).  Max. panel thickness: 10 mm.		34 V
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connections. Weight: 180 grams.	Depth behind panel inside front: 55mm (2.17in) incl. external	