

Hawk 3 Temperature Meter / Controller



File # E199939



- All parameters set from easy to understand front panel access
- One, two or four 5-amp relays optional
- 7-segment 4 digit red LED
- Five user-selectable brightness levels
- Activated set point indicators on display
- Min/Max and password lockout
- NEMA 4X rated front panel
- 4-20mA or 0-10 DCV analog retransmission optional
- 1/8 DIN, shallow depth case, 3.24"

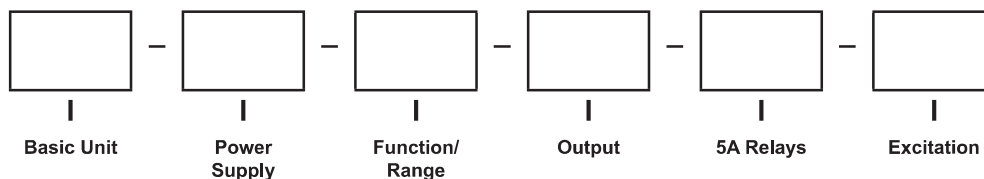
Specifications -

DISPLAY																				
Type	7- segment, red LED																			
Height	0.56" (14.2mm)																			
Brightness	5 settings, user programmable																			
Overrange Indication	Display flashes "EEEE" indicating Maximum Value Exceeded																			
Underrange Indication	Display flashes "-EEE" indicating Minimum Value Exceeded																			
Resolution	1.0°																			
Sensor Break	Display reads "EEEE"																			
Excitation	100mA Max Current																			
POWER REQUIREMENTS																				
AC	85 to 250 VAC/120VAC @ 10VA																			
DC	9 to 36 DCV @ 10VA																			
<div>ACCURACY @ 25°C as % of rdg</div> <table><tr><th>Sensor Type</th><th>Accuracy</th><th>Temperature Range</th></tr><tr><td>RTD Pt 100</td><td>0.2% ± 2 counts</td><td>-200°C to +200°C</td></tr><tr><td>J</td><td>0.2% ± 2 counts</td><td>-100°C to +760°C</td></tr><tr><td>K</td><td>0.2% ± 2 counts</td><td>-200°C to +1250°C</td></tr><tr><td>E</td><td>0.2% ± 2 counts</td><td>-100°C to +800°C</td></tr><tr><td>T</td><td>0.2% ± 2 counts</td><td>-200°C to +400°C</td></tr></table>			Sensor Type	Accuracy	Temperature Range	RTD Pt 100	0.2% ± 2 counts	-200°C to +200°C	J	0.2% ± 2 counts	-100°C to +760°C	K	0.2% ± 2 counts	-200°C to +1250°C	E	0.2% ± 2 counts	-100°C to +800°C	T	0.2% ± 2 counts	-200°C to +400°C
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ENVIRONMENTAL																				
Operating Temperature	0 to 50°C																			
Storage Temperature	-10 to +60°C																			
Relative Humidity	< 80%																			
Ambient Temp	25°C																			
Temperature Drift	± 100 ppm /°C ± 0.05 dgt /°C																			
Warmup time	10 minutes																			
NOISE REJECTION																				
NMRR	60 dB @ 50-60 Hz																			
CMRR	100 db @ 50-60 Hz																			
A TO D CONVERSION																				
Technique	Successive approximation with oversampling																			
Sample Rate	10 conversions per second																			
Display Rate	User Programmable from 1/minute - 8/seconds																			
MECHANICAL																				
Bezel	3.92" x 2.0" x 0.52" (99.8mm x 51.8mm x 132mm)																			
Depth	3.24" (82.3mm) behind panel																			
Panel cutout	3.62" x 1.77" (92mm x 45mm) 1/8 DIN																			
Weight	10 oz. (283.5 g)																			
Cover	NEMA 4X Rated front panel																			

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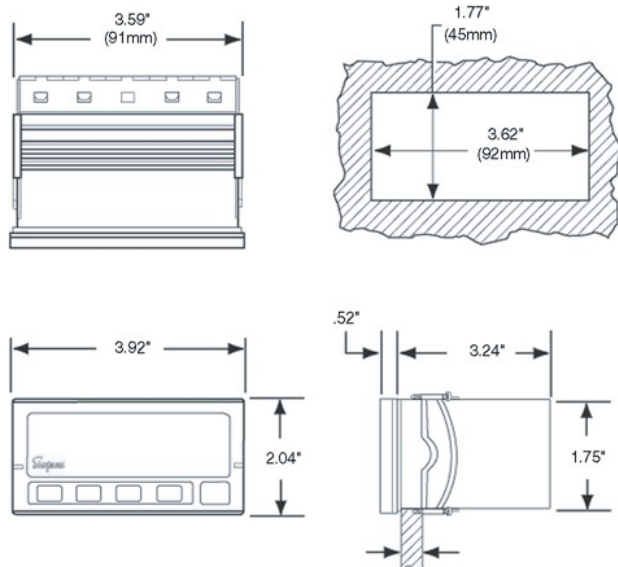
Ordering Information -

Hawk 3 Indicators can be configured by making an entry into each section. Example: H340-3-91-0-4-1



Select From Each One Below									
Basic Unit			Function/Range			5A Relays			
	H340	4 Digit, Red LED		91	J Thermocouple		0	None	
				92	K Thermocouple		1	One	
Power Supply				93	RTD, PT100 3-wire		2	Two	
	1	120 ACV		94	E Thermocouple		4	Four	
	3	9-36 DCV		95	T Thermocouple				
	4	85-250 ACV				Excitation			
			Output				0	None	
				0	None		1	12 DCV - 100mA max current	
				1	4-20 DCmA		2	24 DCV - 100mA max current	
				2	0-10 DCV				

Installation and Panel Cutout - H335, H340, H345



Mounting Requirements

The Hawk 3 Advanced Digital Controller 1/8 DIN meters require a panel cutout of 1.77" (45mm) high by 3.62" (92mm) wide.

To install the Hawk 3 meter into a panel cutout, remove the clips from the side of the meter.

Slide the meter through the panel cutout, then slide the mounting clips back on the meter. Press evenly to ensure a proper fit. Tighten screws.

Engineering Label Placement

To replace the engineering unit label, place the tip of a ballpoint pen into the small hole at the base of the engineering label in the bezel.

Slide the label up until it pops out. Grasp and remove. Slide the new label half the distance in, then use the ballpoint pen to slide it down into place.

