

## 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"

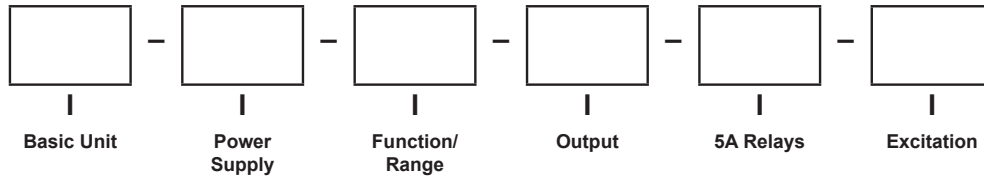
### Specifications -

| 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                                       |                   |
|                             |                                                          |                   |
| ACCURACY @ 25°C as % of rdg |                                                          |                   |
| 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  |
|                             |                                                          |                   |
| 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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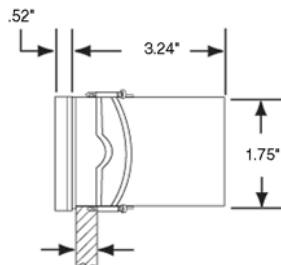
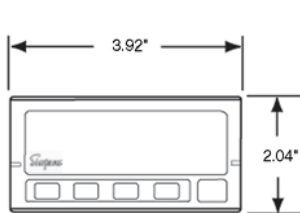
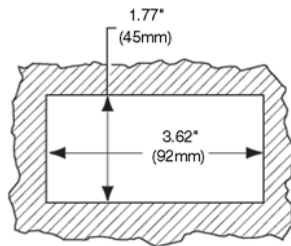
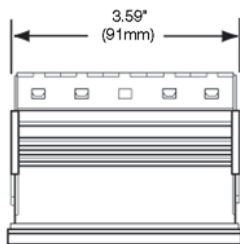
### Ordering Information -

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                        |
|                            |                  | 93             | RTD, PT100 3-wire | 2          | Two                        |
|                            |                  | 94             | E Thermocouple    | 4          | Four                       |
|                            |                  | 95             | T Thermocouple    |            |                            |
| Power Supply               |                  | Output         |                   | Excitation |                            |
| 1                          | 120 ACV          | 0              | None              | 0          | None                       |
| 3                          | 9-36 DCV         | 1              | 4-20 DCmA         | 1          | 12 DCV - 100mA max current |
| 4                          | 85-250 ACV       | 2              | 0-10 DCV          | 2          | 24 DCV - 100mA max current |
|                            |                  |                |                   |            |                            |

### 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.

