# Hawk 3 Digital Panel Meter/Controller





- All parameters set from easy to understand front panel access
- One, two or four 5-amp relays optional
- Five user-selectable brightness levels
- 1/8 DIN, shallow depth case, 3.24"
- RS485 digital communications optional (H345)
- 12 or 24 DCV power supply output optional
- 4-20mA or 0-10 DCV analog transmission optional
- NEMA 4X rated front panel

# Specifications

DISPLAY Type Quantity Brightness Height Decimal point Overrange indication Underrange indication Alarm Indicators	7-segment, red LED 4 or 5 5 user-selectable levels 0.56" (14.2mm) 4 or 5 position, user programmable Display flashes "EEEE" indicating Maximum Value Exceeded Display flashes "-EEE" indicating Minimum Value Exceeded 4 LED indicators for up to four independ- ent setpoints			
POWER REQUIREMENTS AC DC ISOLATION	120, 85-250 VAC @ 10VA 9-36 DCV @ 10VA 250V RMS MAX			
ACCURACY @ 25°C as % of rdg	4-1/2 digit	3-1/2 digit		
DC Current				
High (5A, 2A)	0.2% ± 1 count	0.3% ± 1 count		
All Others	0.05% ± 1 count	0.1% ± 1 count		
DC Volts				
High (600 V)	0.1% ± 1 count			
All others	0.05% ± 1 count	0.1% ± 1 count		
Resistance	$0.1\% \pm 2$ counts	0.1% ± 2 counts		
All ranges *AC Current	$0.1\% \pm 2$ counts	$0.1\% \pm 2$ counts		
High (2A, 5A)	0.2% ± 2 counts	0.3% ± 2 counts		
All others	$0.1\% \pm 2$ counts	$0.2\% \pm 2$ counts		
*AC Volts				
High (600V)	0.1% ± 1 count	0.2% ± 1 count		
All others	0.05% ± 1 count	0.1% ± 1 count		
* AC functions measured at 50 H	tz include + 1 count for a	each additional		

 $^{\ast}$  AC functions measured at 50 Hz, include  $\pm$  1 count for each additional 100 Hz above 50 Hz

# ENVIRONMENTAL

Operating Temperature Storage Temperature Relative Humidity Ambient Temperature Temperature Drift Warmup Time Noise Rejection NMRR CMRR

A TO D CONVERSION Technique Sample Rate Display Rate

MECHANICAL Bezel Depth Panel Cutout Weight Cover 0 to 50°C -10 to +60°C <80% 25°C 100 ppm/°C 10 minutes

60 dB @ 50-60 Hz 70 dB @ 50-60 Hz

Successive approximation with oversampling 10 conversions per second User programmable 1-420 updates/min (240 default)

3.9" x 2.0" x 0.52" (99.8mm x 51.9mm x 13.2 mm) 3.24" (82.3 mm) 3.62" x 1.77" (92 mm x 45mm) 10 oz (283.5g) NEMA 4X Rated front panel

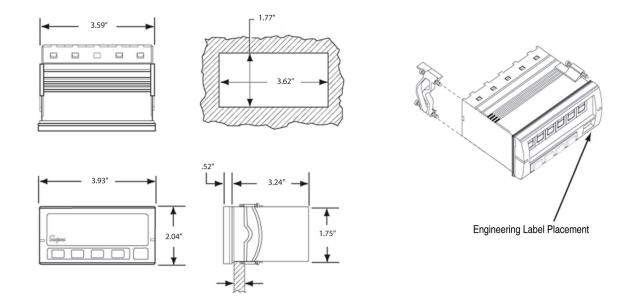


**Ordering Information** 

Basic Unit Power Supply Function/Range Output S	ignal 5A Relay Excitation
election Description	Selection Description
Basic Unit   H335 3-1/2 digit, Red LED   H345 4-1/2 digit, Red LED   Power Supply   1 120 ACV (3-1/2 only)   2 85-250 ACV (4-1/2 only)   3 9-36 DCV   4 85-250 ACV (3-1/2 only)   3 9-36 DCV   4 85-250 ACV (3-1/2 only)   1 200 DCw   2 200 DCw   12 2 DCV   13 20 DCV   14 200 DCV   15 600 DCV*   21 200 DCµA   22 2 DCmA   23 20 DCmA   24 200 DCmA   25 2 DCA   26 5 DCA   31 200 ACmV   32 2 ACV	Function/Range continued     51   200 ACW TRMS     52   2 ACV TRMS     53   20 ACV TRMS     54   200 ACV TRMS     55   600 ACV* TRMS     61   200 ACµA TRMS     62   2 ACmA TRMS     63   20 ACmA TRMS     64   200 ACmA TRMS     65   2 ACA TRMS     66   5 ACA TRMS     66   5 ACA TRMS     66   5 ACA TRMS     67   4-20 DCmA Process     71   4-20 DCM Process     81   200 Ohm     82   2K Ohm     83   20K Ohm     84   200K Ohm     84   200 DCmA     2   0-10 DCV     6   RS-485 (4-1/2 only)
33 20 ACV   34 200 ACV   35 600 ACV*   41 200 ACµA   42 2 ACmA   43 20 ACmA   44 200 ACmA   45 2 ACA   46 5 ACA	<b>5A Relays</b> 0None1One2Two4Four



# 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 and 3.62" (92 mm wide). To install the Hawk 3 meter into the 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 into place.

#### Inputs

#### DC Voltage

Range	Resolution 4.5	Resolution 3.5	Input Impedance	Overload
200 mV	10 µ V	.1 mV	1 M Ω	5DCV
2 V	.1mV	1 mV	1 M Ω	5DCV
20 V	1 mV	10 mV	1 M Ω	300DCV
200 V	10 mV	.1V	1 M Ω	300DCV
600 V	.1 V	1 V	1 M Ω	1K DCV

#### DC Current

Range	Resolution			Overload
	4.5	3.5	Impedance	
200µA	10 nA	.1 µA	1K Ω	4.5mADC
2 mA	.1 µA	1μA	100 Ω	45mA DC
20 mA	1 µA	10 µA	10 Ω	200mADC
200 mA	10 µA	.1 mA	1Ω	600mADC
2A	.1 mA	1 mA	.013 Ω	5.5A DC
5A	1 mA	10mA	.013 Ω	5.5A DC

#### AC Current

Range	Resolution 4.5	Resolution 3.5	Input Impedance	Overload
200µA	10 nA	.1 µA	1KΩ	4.5mA DC
2 mA	.1 µA	1µA	100Ω	45mA DC
20 mA	1μA	10 µA	10 Ω	200mA DC
200 mA	10 µA	.1 mA	1Ω	600mA DC
2A	.1 mA	1 mA	.013 Ω	5.5A DC
5A	1 mA	10mA	.013 Ω	5.5A DC

### AC Voltage

Range	Resolution	Resolution	Input	Overload
~	4.5	3.5	Impedance	
200mV	10uV	.1 mV	200KΩ	5DCV
2 V	.1mV	1 mV	200KΩ	5DCV
20 V	1mV	10 mV	1 MΩ	300DCV
200 V	10 mV	.1 V	1 MΩ	300DCV
600 V	.1 V	1 V	1 MΩ	1K DCV

#### Resistance

Range	Resolution	Resolution	Input	Overload
	4.5	3.5	Impedance	
$200 \Omega$	$10 \text{m}\Omega$	.1Ω	1.2KΩ	± 5DCV
2KΩ	.1Ω	1Ω	12KΩ	± 5DCV
20KΩ	1Ω	10Ω	121K	± 5DCV
200KΩ	10Ω	100Ω	1.2MΩ	± 5DCV

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