





- 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 Excitation output optional, maximum 30mA @ 12V and 20mA @ 24V
- 4-20mA or 0-10 DCV analog retransmission optional
- NEMA 4X rated front panel



Specifications				
	DISPLAY			
Туре	7- segment, red LED, 4 or 5 digits			
Height	0.56" (14.2mm)			
Brightness	5 settings, user programmable			
Decimal Point	4 or 5 position, user programmable			
Overrange Indication Display flashes "EEEE" indicating Maximum Value Exceeded (Example: H335)				
Underrange Indication Display flashes "-EEE" indicating Minimum Value Exceeded (Example: H335)				
Alarm Indicators 4 LED indicators for up to four independent setpoints				
Linearization	H335 2 points H345 16 points			
POWER REQUIREMENTS				
AC	85 to 250 VAC or 120VAC @ 10VA			
DC	9 to 36 DCV @ 10VA			
Isolation	250V RMS MAX			
Note: Each supply is shown at the maximum and minimum values except the 120 VAC unit, which is allowed ± 10%				

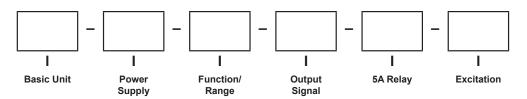
	CCURACY @ 25°C as %	of rdg
	4-1/2 digit	3-1/2 digit
DC Current		
High (5A, 2A)	± 0.2% of reading ± 1 count	± 0.3% of reading ± 1 count
All others	± 0.05% of reading ± 1 count	± 0.1% of reading ± 1 count
DC Volts		
High (600V)	± 0.1% of reading ± 1 count	± 0.2% of reading ± 1 count
All others	± 0.05% of reading ± 1 count	± 0.1% of reading ± 1 count
Resistance		
All ranges	± 0.1% of reading ± 2 counts	± 0.1% of reading ± 2 counts
* AC Current		
High (2A, 5A)	± 0.2% of reading ± 2 counts	± 0.3% of reading ± 2 counts
All others	± 0.1% of reading ± 2 counts	± 0.2% of reading ± 2 counts
* AC Volts	•	
High (600V)	± 0.1% of reading ± 1 count	± 0.2% of reading ± 1 count
All others	± 0.05% of reading	± 0.1% of reading

Specifications	- Con't
	ENVIRONMENTAL
Operating Temperature	0 to 50°C
Storage Temperature	-10 to +60°C
Relative Humidity	< 80% for the temp. up to 31°C and decreasing linearly to 50% relative humidity at 50°C
Ambient Temp	25°C
Temperature Drift	± 100 ppm /°C
Warmup time	10 minutes
	NOISE DE LEGEION
NIMED	NOISE REJECTION
NMRR	60 dB @ 50-60 Hz
CMRR	70 db @ 50-60 Hz
For indoor use to an alti	tude up to 200m
_	
	TO D CONVERSION
Technique	Successive approximation with oversampling
Sample Rate	10 conversions per second
Display Rate	User Programmable from 1 - 420 updates / minute (240 default)
RS-485 Spec	ications (only available on H345)
2 wire / Half duplex, Bau 32 Nodes Maximum on	ud rate: 9600 baud, 1ms delay per character,
	MECHANICAL
Bezel	3.92" x 2.0" x 0.52" (99.8mm x 51.9mm x
Dezei	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
	ELECTRICAL
Accuracy	Listed as % of reading at 25°C. Add 100ppm/°C to compensate for drift. Tested at 50Hz, include +/-1 count for every 100Hz above 50 Hz
Transient Overvoltage	Installation Category III, Pollution Degree 2
Analog Output	Sampling Rate = 100 mSec. Reaction Time 0 to Full Scale = 10 µSec



Ordering Information -

Hawk 3 Indicators can be configured by making an entry into each section. Example: H335-3-71-0-4-1

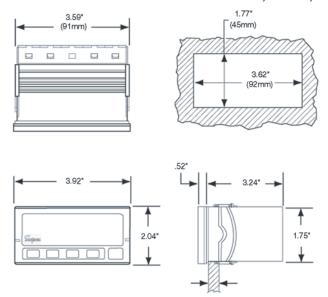


	Basic Unit	F	unction/Range		Output Signal
H335	3-1/2 digit, Red LED	41	200 ΑCμΑ	0	None
H345	4-1/2 digit, Red LED	42	2 ACmA	1	4-20 DCmA
		43	20 ACmA	2	0-10 DCV
	Power Supply	44	200 ACmA	6	RS-485 (4-1/2 only)
1	120 ACV (3-1/2 only)	45	2 ACA		
2	85-250 ACV (4-1/2 only)	46	5 ACA		5A Relays
3	9-36 DCV			0	None
4	85-250 ACV (3-1/2 only)	51	200 ACmV TRMS	1	One
		52	2 ACV TRMS	2	Two
	Function/Range	53	20 ACV TRMS	4	Four
11	200 DCmv	54	200 ACV TRMS		
12	2 DCV	55	600 ACV* TRMS		Excitation
13	20 DCV			0	None
14	200 DCV	61	200 ACμA TRMS	1	12 DCV
15	600 DCV *	62	2 ACmA TRMS	2	24 DCV
		63	20 ACmA TRMS		
21	200 DCµA	64	200 ACmA TRMS		
22	2 DCmA	65	2 ACA TRMS		
23	20 DCmA	66	5 ACA TRMS		
24	200 DCmA	•			
25	2 DCA	71	4-20 DCmA Process		
26	5 DCA	72	0-10 DCV Process		
31	200 ACmV	81	200 Ohm		
32	2 ACV	82	2K Ohm		
33	20 ACV	83	20K Ohm		
34	200 ACV	84	200K Ohm		
35	600 ACV				

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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.

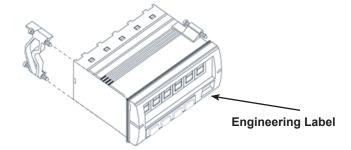
To install the Hawk 3 meter into a panel cutout, remove the clips from the side of the meter.

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.





Inputs

DC Voltage					
Range	Resolution 4-1/2	Resolution 3-1/2	Input Impedance	Overload	
200 mV	10 μ V	.1 mV	1Μ Ω	5 DCV	
2 V	.1 mV	1 mV	1Μ Ω	5 DCV	
20 V	1 mV	10 mV	1Μ Ω	300 DCV	
200 V	10 mV	.1 V	1Μ Ω	300 DCV	
600 V	.1 V	1 V	1Μ Ω	1K DCV	

AC Volta	AC Voltage (same for TRMS @ 60 Hz)					
Range	Resolution 4-1/2	Resolution 3-1/2	Input Impedance	Overload		
200 mV	10 μ V	.1 mV	200Κ Ω	5 DCV		
2 V	.1 mV	1 mV	200Κ Ω	5 DCV		
20 V	1 mV	10 mV	1Μ Ω	300 DCV		
200 V	10 mV	.1 V	1Μ Ω	300 DCV		
600 V	.1 V	1 V	1Μ Ω	1K DCV		

DC Current					
Range	Resolution 4-1/2	Resolution 3-1/2	Input Impedance	Overload	
200 μ A	10 nA	.1 µ A	1Κ Ω	4.5 mA DC	
2 mA	.1 µA	1 µ A	100 Ω	45 mA DC	
20 mA	1 μ A	10 μ A	10 Ω	200 mA DC	
200 mA	10 μ A	.1 mA	1 Ω	600 mA DC	
2 A	.1 mA	1 mA	.013 Ω	5.5 A DC	
5 A	1 mA	10 mA	.013 Ω	5.5 A DC	

AC Curr	AC Current (same for TRMS @ 60 Hz)					
Range	Resolution 4-1/2	Resolution 3-1/2	Input Impedance	Overload		
200 μ A	10 nA	.1 µ A	1Κ Ω	4.5 mA DC		
2 mA	.1 µA	1 µ A	100 Ω	45 mA DC		
20 mA	1 µ A	10 μ A	10 Ω	200 mA DC		
200 mA	10 μ A	.1 mA	1 Ω	600 mA DC		
2 A	.1 mA	1 mA	.013 Ω	5.5 A DC		
5 A	1 mA	10 mA	.013 Ω	5.5 A DC		

Resistance					
Range	Resolution 4-1/2	Resolution 3-1/2	Input Impedance	Overload	
200 Ω	10 m Ω	.1 Ω	1.2K Ω	± 5 DCV	
2Κ Ω	.1 Ω	1 Ω	12K Ω	± 5 DCV	
20K Ω	1 Ω	10 Ω	121Κ Ω	± 5 DCV	
200Κ Ω	10 Ω	100 Ω	1.2M Ω	± 5 DCV	

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