

# 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
- DIN Rail adapter available (page C1)

## Specifications

<b>DISPLAY</b>	
Type	7-segment, red LED
Quantity	4 or 5
Brightness	5 user-selectable levels
Height	0.56" (14.2mm)
Decimal point	4 or 5 position, user programmable
Overrange indication	Display flashes "EEEE" indicating Maximum Value Exceeded
Underrange indication	Display flashes "-EEEE" indicating Minimum Value Exceeded
Alarm Indicators	4 LED indicators for up to four independent setpoints

### POWER REQUIREMENTS

AC	120, 85-250 VAC @ 10VA
DC	9-36 DCV @ 10VA

### ACCURACY @ 25°C as % of rdg

	4-1/2 digit	3-1/2 digit
<b>DC Current</b>		
High (5A, 2A)	0.2% ± 1 count	0.3% ± 1 count
All Others	0.05% ± 1 count	0.1% ± 1 count
<b>DC Volts</b>		
High (600 V)	0.1% ± 1 count	0.2% ± 1 count
All others	0.05% ± 1 count	0.1% ± 1 count
<b>Resistance</b>		
All ranges	0.1% ± 2 counts	0.1% ± 2 counts
<b>*AC Current</b>		
High (2A, 5A)	0.2% ± 2 counts	0.3% ± 2 counts
All others	0.1% ± 2 counts	0.2% ± 2 counts
<b>*AC Volts</b>		
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 Hz, include ± 1 count for each additional 100 Hz above 50 Hz

### ENVIRONMENTAL

Operating Temperature	0 to 50°C
Storage Temperature	-10 to +60°C
Relative Humidity	<80%
Ambient Temperature	25°C
Temperature Drift	100 ppm/°C
Warmup time	10 minutes
Noise Rejection	
NMRR	60 dB @ 50-60 Hz
CMRR	70 dB @ 50-60 Hz

### A TO D CONVERSION

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

### MECHANICAL

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



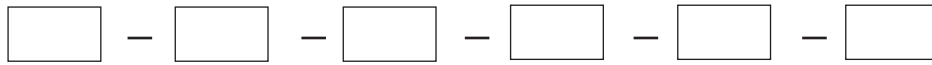
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## Ordering Information

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



**Basic Unit    Power Supply    Function/Range    Output Signal    5A Relay    Excitation**

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

\* Awaiting UL approval