

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

DISPLAY	
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
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	0.2% ± 1 count
All others	0.05% ± 1 count	0.1% ± 1 count
Resistance		
All ranges	0.1% ± 2 counts	0.1% ± 2 counts
*AC Current		
High (2A, 5A)	0.2% ± 2 counts	0.3% ± 2 counts
All others	0.1% ± 2 counts	0.2% ± 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 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 13.2 mm)
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

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

Selection	Description	Selection	Description
Basic Unit		Function/Range continued	
H335	3-1/2 digit, Red LED	51	200 ACmV TRMS
H345	4-1/2 digit, Red LED	52	2 ACV TRMS
Power Supply		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	Output	
4	85-250 ACV (3-1/2 only)	0	None
Function/Range		1	4-20 DCmA
11	200 DCmv	2	0-10 DCV
12	2 DCV	6	RS-485 (4-1/2 only)
13	20 DCV	5A Relays	
14	200 DCV	0	None
15	600 DCV*	1	One
Output		2	Two
21	200 DCμA	4	Four
22	2 DCmA	Excitation	
23	20 DCmA	0	None
24	200 DCmA	1	12 DCV
25	2 DCA	2	24 DCV
26	5 DCA		
31	200 ACmV		
32	2 ACV		
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		
Continued on next column			
* Awaiting UL approval			