

Hawk 3 Advanced Digital Panel Meter & Controller



- All parameters set from easy to understand front panel access
- One, two or four 5-amp relays optional
- 7 segment 3-1/2 or 4-1/2 digit red LED
- Five user-selectable brightness levels
- Activated set point indicators on display
- 16-point scaling linearization (H345)
- Screw terminals for easy installation
- 1/8 DIN, shallow depth case, 3.24"
- Min/Max and password lockout
- 12 or 24 VDC power supply output optional
- 4-20mA DC or 0-10 VDC analog retransmission optional
- NEMA 4x Rated Front Panel



General specifications:

Display: 7-segment, red LED
Quantity: 4 or 5
Height: 0.56" (14.2 mm)
Decimal Point: 4 or 5 position, user programmable
Brightness: 5 levels, user programmable
Overrange: Display flashes "EEEE" indicating Maximum Value Exceeded
Underrange: 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 VDC @ 10VA

Accuracy @ 25°C as percent of reading

	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 (600V)	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

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*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 Temp: 0° to +50° C
Storage Temp: -10° to +60° C
Relative Humidity: <80%
Ambient Temp: 25° C
Temperature Drift: 100 ppm/°C
Warm-up 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

Depth: 3.24" (82.3 mm) behind panel
Bezel: 3.9" x 2.0" x 0.52" (99 mm x 51 mm x 13.2 mm)
Panel Cutout: 3.62" x 1.77" (92 mm x 45 mm) 1/8 DIN
Case Material: Flame Retardant ABS
Weight: 10 oz. (283.5 g)

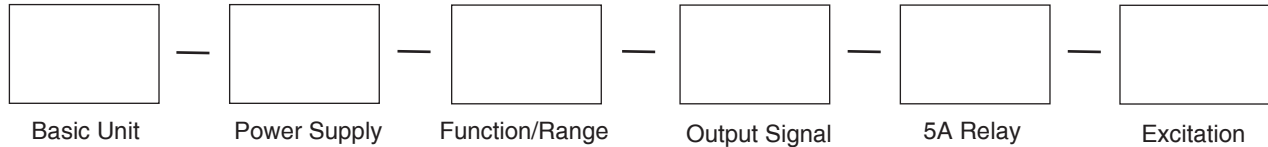


Order Information on back of flyer

Ordering Information

Make a selection from each option to build the part number.

Example: H335-3-71-0-4-1, 3-1/2 digit, 9-36 DCV power, 4-20mADC Process, no output signal, 4 relays,
12 DCV excitation



Basic Unit

H335 3-1/2 digit, Red LED
H345 4-1/2 digit, Red LED

Power Supply

1 120 ACV (3-1/2 digit only)
2 85-250 ACV (4-1/2 digit only)
3 9-36 DCV
4 85-250 ACV (3-1/2 digit only)

Function/Range

11 200 DCmV
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
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

* Awaiting UL approval

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51 200 ACmV 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

71 4-20 DCmA Process
72 0-10 DCV Process

81 200 Ohm
82 2k Ohm
83 20k Ohm
84 200k Ohm

Output

0 None
1 4-20 DCmA
2 0-10 DCV
6 RS-485(4-1/2 only)

5A Relays

0 None
1 One
2 Two
4 Four

Excitation

0 None
1 12 DCV
2 24 DCV