

## Simpson Digital Panel Meters

DIGITAL METERS



F35

- Case Size: Standard 1/8 DIN
- Accuracy:  $\pm 0.1\%$  (F35);  $\pm 0.02\%$  (F45DCV);  $\pm 0.5\%$  (F45AC)
- Auto-Zero
- Choice of AC or DC Power Supplies
- Broad Range Scaling and Adjustable Zero Offset for Process Inputs
- User-Selectable Decimal Points
- Optional Excitation Output 12 VDC or 24 VDC
- Easy Installation Using Screw Terminals



M235

- Case Size: Standard 3/64 DIN Dimensions
- Accuracy:  $\pm 0.1\%$  (M235);  $\pm 0.04\%$  (M245)
- Minimum Depth Indicator—Less Than 2.5" (60 mm) of Space
- User-Selectable Decimal Point
- Optional Negative Image, Bright Red Backlighting
- Standard Screw Terminals
- 85V to 250 VAC Power or 9V to 32 VDC

### ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number  
Order Example: F35-1-12-1

A	B	C	D
<b>A Basic Unit</b>			
F35	3 <sup>1</sup> / <sub>2</sub> -Digit Meter		
F45	4 <sup>1</sup> / <sub>2</sub> -Digit Meter		
<b>B Power Supply</b>			
1	120 VAC		
2	220 VAC		
3	9-32 VDC		
<b>C Input Range</b>			
	<b>DC Voltage</b>	<b>AC Voltage</b>	<b>AC RMS</b>
200 mV	11	31	51
2V	12	32	52
20V	13	33	53
200V	14	34	54
	<b>DC Current</b>	<b>AC Current</b>	<b>AC RMS (F35 Only)</b>
200 $\mu$ A	21	41	61
2 mA	22	42	62
20 mA	23	43	63
200 mA	24	44	64
2A	25	45	65
5A	26	46	66
<b>Process</b>			
71	4-20 mADC		
72	1-5 VDC		
73	0-10 VDC		
<b>Temperature (F45 only)</b>			
80	J T/C	84	E T/C
81	K T/C	85	R T/C
82	S T/C	86	mV DC
83	T T/C	90	RTD PT 100
	<b>Frequency</b>	<b>RMS (F35)</b>	<b>Sq. Wave (F35)</b>
	20-199.9 Hz	91	93
	20-1999 Hz	92	94
<b>D Excitation Output (DC Input Only)</b>			
0	None		
1	12 VDC		
2	24 VDC		

### SPECIFICATIONS

Power: 85V-250 VAC @ 40 Hz-440 Hz; or 9V-32 VDC  
Size: 2.84 x 0.95 x 2.36" WHD (72 x 24 x 60 mm)

### ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.  
Order Example: M235-1-0-11-0

A	B	C	D	E
<b>A Basic Unit</b>				
M235	3 <sup>1</sup> / <sub>2</sub> -Digit Meter			
M245	4 <sup>1</sup> / <sub>2</sub> -Digit Meter			
<b>B Display</b>				
0	Non-Backlit LCD			
1	Negative Red LCD Backlight			
2	Red LED			
<b>C Supply Voltage</b>				
0	85-250 VAC			
2	9-32 VDC*			
<b>D Function Range</b>				
11	200 mVDC	31	200 mVAC TRMS	
12	2 VDC	32	2 VAC TRMS	
13	20 VDC	33	20 VAC TRMS	
14	200 VDC	34	200 VAC TRMS	
15	600 VDC (LED only)	35	600 VAC TRMS (LED only)	
21	200 $\mu$ ADC	36	270 VAC TRMS (LCD only)	
22	2 mADC	41	200 $\mu$ AAC TRMS	
23	20 mADC	42	2 mAAC TRMS	
24	200 mADC	43	20 mAAC TRMS	
25	2 ADC	44	200 mAAC TRMS	
26	5 ADC	45	2 AAC TRMS	
71	4-20 mADC	46	5 AAC TRMS	
72	1-5 VDC	81	20-199.9 Hz**	
73	0-10 VDC	82	20-1999 Hz**	
		83	20-199.9 Hz Sq. Wave**	
		84	20-1999 Hz Sq. Wave**	
<b>E Excitation Output (NA with Frequency)</b>				
0	None			
1	12 VDC (M235 only)			
2	24 VDC (M235 only)			

\* Not Available on Frequency (Hz) Meters

\*\* M235 LCD Meters only