



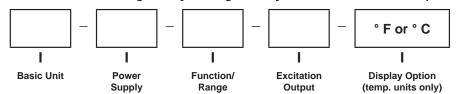


- 1/8 DIN Indicator
- 3-1/2 or 4-1/2 digit bright red LED display
- Front panel pops off for easy decimal point setting and display scaling
- Only 3.12" (79mm) required behind panel
- Optional excitation output
- NEMA 4X removable cover, using part # 45003



Ordering Information -

Falcon Indicators can be configured by making an entry into each section. Example: F35-1-52-0.



	Sele	ct From Ea	ch One	Below
	Basic Unit			Function/Range
F35	3-1/2 digit LED		61	200 ACμA TRMS *
F45	4-1/2 digit LED		62	2 ACmA TRMS *
			63	20 ACmA TRMS *
	Power Supply		64	200 ACmA TRMS *
1	120 ACV		65	2 ACA TRMS *
2	220 ACV		66	5 ACA TRMS *
3	9-32 DCV †			
			71	4-20 DCmA Process
	Function/Range		72	1-5 DCV Process
11	200 DCmv		73	0-10 DCV Process
12	2 DCV			
13	20 DCV		80	J T/C **
14	200 DCV		81	K T/C **
•	·		82	S T/C **
21	200 DC μ A		83	T T/C **
22	2 DCmA		84	E T/C **
23	20 DCmA		85	R T/C **
24	200 DCmA		86	DCmV **
25	2 DCA		90	RTD Pt100 Ohm **
26	5 DCA			
			91	20-199.9 Hz RMS *
31	200 ACmV		92	20-1999 Hz RMS *
32	2 ACV		93	20-199.9 Hz Sq. Wave *
33	20 ACV		94	20-1999 Hz Sq. Wave *
34	200 ACV			
				Excitation Output
41	200 ΑCμΑ	(not a	available	with AC, temperature, or frequency input
42	2 ACmA		0	None
43	20 ACmA		1	12 DCV @ 25mA max. current
44	200 ACmA		2	24 DCV @ 25mA max. current
45	2 ACA			
46	5 ACA		D	isplay Option Temperature Meter
			С	° C
51	200 ACmV TRMS *		F	°F
52	2 ACV TRMS *			
53	20 ACV TRMS *			
54	200 ACV TRMS *			

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Not available for use with frequency meters

^{*} Only available with F35

^{**} Only available with F45



Specifications					
DISPLAY					
Туре	7- segment, red LED				
Height	0.56" (14.2mm)				
Decimal Point	User-programmable, internally or on the terminal block				
Overrange Indication	Most significant digit = "1"; other digits blank				
Polarity	Automatic, with "-" indication, "+" indication implied				
POWER REQUIREMENTS					
AC Voltages 120 or 220VAC, ±10% 50/60Hz					
DC Voltages	9-32DCV, ±1%				
Power Consumption	F35: 3VA, F45: 2VA				
ISOLATION	250V RMS MAX				
ACCURACY @25°C					
F45 DC Process/Voltage	±0.02% of reading ± 1 count				
F35 DC Process/Voltage	±0.1% of reading ± 1 count				
F45 DC Current	±0.05% of reading ±1 count				
	2A ± 5 counts, 5A ± 5 counts				
F35 DC Current	±0.1% of reading ± 1 count				
	2A ± 5 counts, 5A ± 5 counts				
F45 AC Voltage/Current	±0.5% of reading ± 35 counts				
F35 AC Voltage/Current *	±1% of reading ± 5 counts (50Hz-100Hz) * For TRMS (45 Hz to 1KHz)				
ENVIRONMENTAL					
Operating Temperature	0 to 55°C				
Storage Temperature	-10 to 60°C				
Relative Humidity					
Warm-up Time	Less than 15 minutes				
-					
NOISE REJECTION					
NMRR	F35=50dB, 50/60Hz; F45=60dB, 50/60Hz				
CMRR	(w/1KΩ unbalanced @ 60Hz) 90dB min.				
A TO D CONVERSION					
Technique	Dual slope integration				
Rate	F35=3 samples per second, nominal;				
	F45=2.5 samples per second, nominal				
MECHANICAL					
Bezel	3.78" x 1.89" x .51"				
Depth	2.94"				
Panel Cutout	3.62" X 1.77"				
Case Material	94V-1, UL rated Noryl®				
Weight	9.0oz (255.1g)				
Temperature Coefficient					
F35 AC/TRMS (Voltage/Current)	(±0.1% of input ± 0.5 count)/°C				
F35 DC (Voltage/Current/Process)	(±0.01% of input ± 0.05 count)/°C				
F45 AC (Voltage/Current)	(±0.05% of input ± 0.5 count)/°C				
F45 DC Current	(±0.01% of input ± 0.1 count)/°C				
F45 DC (Voltage/Process)	$(\pm 0.05\% \text{ of input } \pm 0.1 \text{ count})$ /°C				



Specifications for F35 Frequency Meters					
	Too Troquonoy Motoro				
DISPLAY					
Туре	7- segment, red LED				
Height	0.56" (14.2mm)				
Overrange Indication	Most significant digit = "1"; other digits blank				
POWER REQUIREME	NTS				
AC Voltages	120 or 220VAC, ±10% 50/60Hz				
Power Consumption	2.5VA min./4VA max.				
ACCURACY @25°C					
200 Hz	±0.2% of input ±0.2 Hz				
2 KHz	±0.2% of input ± 2Hz				
INPUT LEVEL	500mV to 250V RMS at 1.0M Ω impedance				
	OR 5V to 24V Square Wave (DCoffset 2V maximum)				
Resolution	200Hz = 0.1Hz				
	2kHz =1Hz				
ENVIRONMENTAL					
Operating Temperature	0 to 55°C				
Storage Temperature	-10 to 60°C				
Relative Humidity	0 to 85% non-condensing @ 40°C				
Temperature Coefficient	(±0.05% of input ± 0.5 count)/°C				
Warm-up Time	Less than 15 minutes				
00111/5501011					
CONVERSION	T=				
Technique	Frequency-to-voltage				
Rate	3 samples per second, nominal				



Specifications for F45	5 Temperature Meters				
DISPLAY					
Туре	7- segment, red LED				
Height	0.56" (14.2mm)				
Decimal Point	Jumper-selectable 2-position (corresponding to resolution desired)				
Overrange Indication	Most significant digit = "1"; other digits blank				
Polarity	Automatic, with "-" indication, "+" indication implied				
POWER REQUIREMENTS					
AC Voltages	120 or 220VAC, ±10% 50/60Hz				
DC Voltages	9-32 DCV, ±1%				
Power Consumption	3VA				
ENVIRONMENTAL					
Operating Temperature	0 to 55°C				
Storage Temperature	-10 to 60°C				
Relative Humidity	0 to 85% non-condensing				
Warm-up Time	Less than 20 minutes				
INPUTS					
Thermocouple	J, K, E, T, R, and S				
RTD	Platinum 100 (.00385 alpha), 2, 3 or 4 wire				
Millivolt	±84mV reading of uncompensated mV				
Input Impedance	7MΩ(typical)				
Conversion Rate	2-1/2 times per second				
Open Thermocouple Detection	-1 on display, -40nA bias on thermocouple				

	Temperature						
Sensor Type	Temperature Range	Accuracy	Resolution				
E	-200 to 1000°C						
	-328 to 1832°F						
	-200 to 1200°C						
J	-328 to 2192°F						
К	-200 to 1372°C		0.1 or 1 Degree User Selectable				
ĸ	-328 to 2501°F	±0.1% of rdg ± 1°C					
т	-200 to 400°C	±0.1% of rdg ± 1.8°F					
'	-328 to 752°F						
RTD Pt 100	-200 to 850°C						
KID Pt 100	-328 to 1562°F						
R,S	-50 to 1768°C		1 Degree				
K,S	-58 to 3214°F		Automatic				
	Voltage Range	1 020/ of rdg 1 1 occupt	0.01 mV				
	±84.00mV	±.02% of rdg ± 1 count					
	Voltage Range	. 000/ of rdg . 1 count	0.004m\/				
	-19.999mV to +84.000mV	±.02% of rdg ± 1 count	0.001mV				

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Inputs

DC Voltage							
	F	35	F				
Range	Resolution Impedance		Resolution	Input Impedance	Max Input (Unfused)		
200mV	100µV	>100MEG	10µV	>100MEG	100V		
2V	1mV	>10MEG	100µV	>10MEG	250V		
20V	10mV	>10MEG	1mV	>9.9MEG	250V		
200V	100mV	>9.9MEG	10mV	>9.8MEG	250V		

AC TRMS Voltage							
	F						
Range	Resolution Impedance		Resolution	Input Impedance	Max Input (Unfused)		
200mV	100µV	>100MEG	10µV	>100MEG	100V		
2V	1mV	>1MEG	100µV	>1MEG	250V		
20V	10mV	>10MEG	1mV	>1MEG	250V		
200V	100mV	>9.9MEG	10mV	>1MEG	250V		

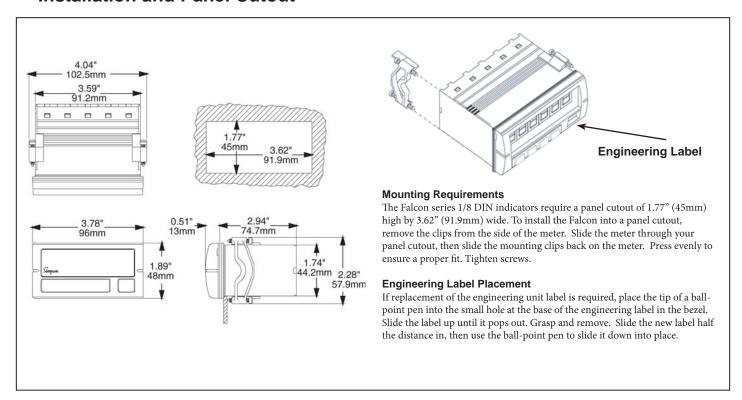
DC / AC TRMS Current							
	Resol	lution	Voltage	Max Input			
Range	F35 F45		Drop	(Unfused)			
200µA	100µA	10µA		10mA			
2mA	1µA	100µA		40mA			
20mA	10μΑ	1µA	200mV	100mA			
200mA	100μΑ	10µA	2001117	500mA			
2A	1mA	100µA		2.2A			
5A	10mA	1mA		5.2A			

DC Process							
	F	F35 F45					
Range	Resolution Impedance		Resolution Impedance		Max Input (Unfused)		
4 to 20mA	0.1 %	10 Ohms	.01 %	10 Ohms	500mV		
1 to 5Vdc	0.1 %	>10MEG	.01 %	>9.9MEG	10V		
0 to 10Vdc	0.1 %	>10MEG	.01 %	>9.9MEG	10V		

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Installation and Panel Cutout



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