

## Crompton DIN Panel Meters

- 48, 72, 96 & 144mm Case Sizes
- 1.5% Accuracy Class
- 90° & 240° Versions

### Moving Coil DC Ammeters and Voltmeters

The linear scale is calibrated down to zero. Accuracy is maintained down to 10%.

Accuracy:	Class 1.5
Impedance:	Voltmeters: 1000Ω/V above 1V Millivolt meters use a 5mA movement.
Ammeters:	75mV internal shunt above 60mA

Model Code	48 x 48 mm	72 x 72 mm	96 x 96 mm	144 x 144 mm
<b>Short Scale (90°)</b>				
DC Ammeters	E242-89A	E243-01A	E244-01A	E246-01A
DC Voltmeters	E242-89V	E243-01V	E244-01V	E246-01V
Center Zero:				
DC Ammeters	E242-89C	E243-01C	E244-01C	E246-01C
DC Voltmeters	E242-89N	E243-01N	E244-01N	E246-01N

<b>Long Scale (240°)</b>				
DC Ammeters	----	E243-05A	E244-05A	E246-05A
DC Voltmeters	----	E243-05V	E244-05V	E246-05V
Center Zero:				
DC Ammeters	----	E243-05C	E244-05C	E246-05C
DC Voltmeters	----	E243-05N	E244-05N	E246-05N

Suppressed zero (e.g. 4-20mA, 1-5V) models also available.

### Range Codes

Ammeter	DC			AC TRMS			AC Rect		
	Range	Code		Range	Code		Range	Code	
200 μA	EAEA	•		50 mV	HYHY	•			
250 μA	EBEB	•		60 mV	JCJC	•			
400 μA	EIEI	•		75 mV	JDJD	•			
600 μA	EQEQ	•		100 mV	JRJR	•			
1 mA	FAFA	•	•	150 mV	JXJX	•			
1.5 mA	FD	•	•	250 mV	KDKD	•			
2.5 mA	FKFK	•	•	400 mV	KJKJ	•			
5 mA	FXFX	•	•	600 mV	KPKP	•			
6 mA	GCGC	•	•	1 V	LALA	•			
10 mA	GZGZ	•	•	1.5 V	LCLC	•			
15 mA	HCHC	•	•	2.5 V	LFLF	•			
20 mA	HFHF	•	•	4 V	LLLL	•			
25 mA	HJHJ	•	•	5 V	LSLS	•			
40 mA	HS	•	•	6 V	LWLW	•			
100 mA	HZHZ	•	•	10 V	MTMT	•	•		
250 mA	KDKD	•	•	15 V	NDND	•	•		
400 mA	KJKJ	•	•	20 V	NGNG	•	•		
600 mA	KPKP	•	•	25 V	NJNJ	•	•		
1 A	LALA	•	•	40 V	NPNP	•	•		
1.5 A	LCLC	•	•	60 V	NWNW	•	•	•	
2.5 A	LFLF	•	•	100 V	PKPK	•	•	•	
4 A	LLLL	•	•	150 V	PZPZ	•	•	•	
5 A	LSLS	•	•	250 V	RSRS	•	•	•	
6 A	LWLW	•	•	300 V	RXR	•	•	•	
10 A	MTMT	•	•	400 V	SCSC	•	•	•	
15 A	NDND	•	•	500 V	SFSF	•	•	•	
20 A	NGNG	•	•	600 V	SJSJ	•	•	•	
25 A	NJNJ	•	•						
30 A	NLNL	•	•						
40 A	NPNP	•	•						

• Available Range



DIN Short Scale



DIN Long Scale

### Moving Iron AC Ammeters and Voltmeters

Meters indicate true RMS value, substantially independent of system waveform. Scales are calibrated down to 20%.

Accuracy:	Class 1.5
Frequency:	50 or 60Hz (specify)
Burden:	Ammeters: 0.5VA; Voltmeters: 4.5VA maximum

Model Code	48 x 48 mm	72 x 72 mm	96 x 96 mm	144 x 144 mm
<b>Short Scale (90°)</b>				
AC Ammeter	E242-75A	E243-02A	E244-02A	E246-02A
AC Voltmeter	E242-75V	E243-02V	E244-02V	E246-02V

CT Rated AC Ammeters also available.

### Rectifier AC Ammeters and Voltmeters

Meters are average responding, calibrated for RMS of sine wave.

Accuracy:	Class 1.5
Frequency:	50/60Hz

Model Code	48 x 48 mm	72 x 72 mm	96 x 96 mm	144 x 144 mm
<b>Short Scale (90°)</b>				
AC Ammeter	E242-89B	E243-01B	E244-01B	E246-01B
AC Voltmeter	E242-89W	E243-01W	E244-01W	E246-01W
<b>Long Scale (240°)</b>				
AC Ammeter	----	E243-05B	E244-05B	E246-05B
AC Voltmeter	----	E243-05W	E244-05W	E246-05W

DIN Frequency



### Frequency Meters

Frequency meters use an integral electronic converter and a moving coil indicator.

Accuracy:	Class 0.5
Burden:	4VA maximum

Model Code	48 x 48 mm	72 x 72 mm	96 x 96 mm
<b>Short Scale (90°)</b>			
	E242-41S	E243-41S	E244-41S
<b>Long Scale (240°)*</b>			
	----	----	E244-41L

Range Code	45/55Hz	55/65Hz	45/65Hz	360/440Hz
100-125V AC	PLAG-AG	PLAN-AN	PLAJ-AJ	PLBI-BI
200-250V AC	RNAG-AG	RNAN-AN	RNAJ-AJ	RNBI-BI

\* 360/440Hz not available

## ORDERING INFORMATION

To Order: Specify Model Code followed by Range Code

Example: E242-75V-PZPZ

### General Specifications:

Environment:	-20°C to +60°C
Case:	UL94V0 polycarbonate case, glass window, IP52
Depth:	64mm

Standard dials are white matte with black printed scales and bar knife-edge pointers. Black dials with white or yellow scales and pointers are also available.