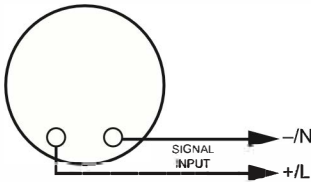


AC and DC Ammeters, Voltmeters and Frequency Meters

This range of self contained, pivot and jewel moving iron meters feature 250° linear scale. AC instruments are available with true RMS converting circuit or RMS compensated rectifier. While types of frequency meters can be damaged by transient supply voltage spike, Crompton Instruments 007-41 frequency meters can withstand, without damage, 10 successive transient spikes of 1250 volts. The range offers c-UL-us certification.



Fig. AA 007-05/007-41



Specifications-General

Manufactured in accordance with American National Standards ANSI C39.1, (1981)

Accuracy	±1% full scale at 23°C (73°F)
Scales arc	250° full scale deflection
Scale length	007 and 078: 175.2 mm (6.9")
Scale plate	2 piece, platform type
Response time	007 and 078: Approximately 2.5 seconds to full scale
Operating temperature	0 to 40°C (32 to 104°F)
Storage temperature	-10 to +50°C (14 to 122°F)
Extreme temperature range	-20° to +65°C (-4° to 149°F)
Terminals	Standard 10-32 UNF stud. M5 screw clamp is optional
Dielectric withstand	2300V AC for 1 minute between electrical circuit and case
Overshoot	33% maximum
Enclosure code	007: IP54, optional IP55 and 078: IP67
Certification	c-UL-us

Specifications-Ammeters and Voltmeters

Overload rating	AC ammeters - 2 x continuous, 50 x for 1 second AC voltmeters and frequency meters - 1.2 x continuous DC ammeters - 2 x continuous 10 x for 1 second DC voltmeters - 1.2 x continuous
Frequency range	AC calibration 50/60Hz ±20%

Specifications-Frequency Meters

Response time	3 seconds maximum
External temperature influence	0.6 times accuracy maximum with ±10°C from reference temperature
External field influence	2.0 times accuracy maximum with 0.5m T field
Acceptable input harmonic influence	up to 30% distortion

Maximum Frequency - Hz	Center Scale - Hz	Error in Hz
45-55	50	0.15
46-54	50	0.15
45-65	55	0.25
50-70	60	0.25
55-65	60	0.15
56-64	60	0.15



DC Voltmeter

DC Voltmeters

Product Codes – Sensitivity 1000 Ohms / Volt - Accuracy $\pm 1\%$ ***

Rating	Scaling*	4 1/2" square flange	
		Std. case catalog number	Std. case hi-shock catalog number
500MV-800V	To suit	•007-05VA-**	078-05VJ-**
0-15V	0-15V	•007-05VA-NDND	078-05VJ-NDND
0-30V	0-30V	•007-05VA-NLNL	078-05VJ-NLNL
0-50V	0-50V	•007-05VA-NTNT	078-05VJ-NTNT
0-75V	0-75V	•007-05VA-PBPB	078-05VJ-PBPB
0-150V	0-150V	•007-05VA-PZPZ	078-05VJ-PZPZ
0-300V	0-300V	•007-05VA-RXR X	078-05VJ-RXR X
0-400V	0-400V	•007-05VA-SCSC	078-05VJ-SCSC
0-500V	0-500V	•007-05VA-SFSF	078-05VJ-SFSF
0-600V	0-600V	•007-05VA-SJSJ	078-05VJ-SJSJ
0-750V	0-750V	007-05VA-SMSM	078-05VJ-SMSM
0-800V	0-800V	007-05VA-SNSN	078-05VJ-SNSN

Product Codes – Zero Center - Sensitivity 2000 Ohms / Volt Accuracy $\pm 1\%$ ***

150-0-150V	150-0-150V	•007-05NA-RXR X	078-05NJ-RXR X
300-0-300V	300-0-300V	•007-05NA-SJSJ	078-05NJ-SJSJ
500-0-500V	500-0-500V	•007-05NA-SSSS	078-05NJ-SSSS
600-0-600V	600-0-600V	•007-05NA-SUSU	078-05NJ-SUSU



Frequency Meter

Frequency Meters

Product Codes – 120V Self Contained***

Ratings	Scaling*	4 1/2" square flange	
		Std. case catalog number	Std. case hi-shock catalog number
50Hz +/-0.15	45-55Hz	•007-41LA-PNAG-AG	078-41LJ-PNAG-AG
50Hz +/-0.15	46-54Hz	•007-41LA-PNAH-AH	078-41LJ-PNAH-AH
50Hz +/-0.25	45-65Hz	•007-41LA-PNAJ-AJ	078-41LJ-PNAJ-AJ
60Hz +/-0.25	50-70Hz	•007-41LA-PNAL-AL	078-41LJ-PNAL-AL
60Hz +/-0.15	55-65Hz	•007-41LA-PNAN-AN	078-41LJ-PNAN-AN
60Hz +/-0.15	56-64Hz	•007-41LA-PNAO-AO	078-41LJ-PNAO-AO
60Hz +/-0.08	58-62Hz	•007-41LA-PNAT-AT	078-41LJ-PNAT-AT

For alternative voltage rating 200-250V, use code RN instead of PN.

For alternative voltage rating 380-480V, case types 007/078 use code SE instead of PN.

10-32 UNF terminals.

* Other scales are available.

** Specify scale required.

***For case types 007/078

use 10-32 UNF terminals.

• c-UL-us certified.