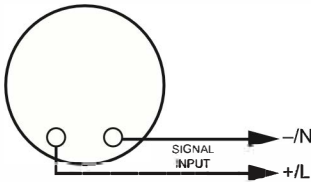


AC and DC Ammeters, Voltmeters and Frequency Meters

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

RMS Reading AC Ammeters

Product Codes - Self Contained 40/70Hz - Accuracy $\pm 1\%$, 60Hz***

Rating	Scaling*	4 1/2" square flange	
		Std. case catalog number	Std. case hi-shock catalog number
1A	0-1A	•007-05FA-LALA-C7	078-05FJ-LALA-C6
1.5A	0-1.5A	•007-05FA-LCLC-C7	078-05FJ-LCLC-C6
2A	0-2A	•007-05FA-LELE-C7	078-05FJ-LELE-C6
3A	0-3A	•007-05FA-LJLJ-C7	078-05FJ-LJLJ-C6
5A	0-5A	•007-05FA-LSLS-C7	078-05FJ-LSLS-C6
7.5A	0-7.5A	•007-05FA-MFMF-C7	078-05FJ-MFMF-C6
10A	0-10A	•007-05FA-MTMT-C7	078-05FJ-MTMT-C6
15A	0-15A	•007-05FA-NDND-C7	078-05FJ-NDND-C6
20A	0-20A	•007-05FA-NGNG-C7	078-05FJ-NGNG-C6
30A	0-30A	•007-05FA-NLNL-C7	078-05FJ-NLNL-C6

For AC rectified non-RMS compensated meter, please replace the -05F in the product code with -05B.

Product Codes - Transformer Rated 40/70Hz - Burden 0.3VA***

5A	0-10A	•007-05FA-LSMT-C7	078-05FJ-LSMT-C6
5A	0-15A	•007-05FA-LSND-C7	078-05FJ-LSND-C6
5A	0-20A	•007-05FA-LSNG-C7	078-05FJ-LSNG-C6
5A	0-25A	•007-05FA-LSNJ-C7	078-05FJ-LSNJ-C6
5A	0-30A	•007-05FA-LSNL-C7	078-05FJ-LSNL-C6
5A	0-40A	•007-05FA-LSNP-C7	078-05FJ-LSNP-C6
5A	0-50A	•007-05FA-LSNT-C7	078-05FJ-LSNT-C6
5A	0-75A	•007-05FA-LSPB-C7	078-05FJ-LSPB-C6
5A	0-100A	•007-05FA-LSPK-C7	078-05FJ-LSPK-C6
5A	0-150A	•007-05FA-LSPZ-C7	078-05FJ-LSPZ-C6
5A	0-200A	•007-05FA-LSRL-C7	078-05FJ-LSRL-C6
5A	0-250A	•007-05FA-LSRS-C7	078-05FJ-LSRS-C6
5A	0-300A	•007-05FA-LSRX-C7	078-05FJ-LSRX-C6
5A	0-400A	•007-05FA-LSSC-C7	078-05FJ-LSSC-C6
5A	0-500A	•007-05FA-LSSF-C7	078-05FJ-LSSF-C6
5A	0-600A	•007-05FA-LSSJ-C7	078-05FJ-LSSJ-C6
5A	0-800A	•007-05FA-LSSN-C7	078-05FJ-LSSN-C6
5A	0-1000A	•007-05FA-LSSS-C7	078-05FJ-LSSS-C6
5A	0-1200A	•007-05FA-LSSU-C7	078-05FJ-LSSU-C6
5A	0-1500A	•007-05FA-LSTC-C7	078-05FJ-LSTC-C6
5A	0-1600A	•007-05FA-LSTE-C7	078-05FJ-LSTE-C6
5A	0-2000A	•007-05FA-LSTM-C7	078-05FJ-LSTM-C6
5A	0-2500A	•007-05FA-LSTU-C7	078-05FJ-LSTU-C6
5A	0-3000A	•007-05FA-LSUA-C7	078-05FJ-LSUA-C6
5A	0-4000A	•007-05FA-LSUE-C7	078-05FJ-LSUE-C6
5A	0-5000A	•007-05FA-LSUJ-C7	078-05FJ-LSUJ-C6
5A	0-6000A	•007-05FA-LSUP-C7	078-05FJ-LSUP-C6
5A	0-7000A	•007-05FA-LSUS-C7	078-05FJ-LSUS-C6
5A	0-8000A	•007-05FA-LSUW-C7	078-05FJ-LSUW-C6

For AC rectified non-RMS compensated meter, please replace the -05F in the product code with -05B.

* Other scales are available.

*** For case types 007/078 use 10-32 UNF terminals.

• c-UL-us certified.



AC Ammeter