

Ammeter

AMPERE DEMAND METER

The AD-7 thermal ampere demand meter is used to indicate current loading on transformers, distribution feeders, underground distribution systems, and other electrical equipment requiring metering. These instruments thermally average line currents providing readings that are representative of "steady state" conditions of loading. The loads are averaged thermally with a response curve that corresponds to the heating curve of electrical equipment.

The thermal element has only one moving part, giving years of trouble-free and accurate service. Two models of the AD-7 are available. The ADF-7 is a semi-flush, switchboard mounted ammeter; the ADS-7 is a socket mounted version for installation in a standard meter socket or an A-base adapter. An instantaneous ammeter is an optional feature for both types of meters. Other optional features include dual-range and primary scale kits.

FEATURES

- Thermal response parallels the heat-rise curve of electrical equipment
- Thermal measurement principle has been field-proven for more than 60 years
- Single moving part provides years of trouble-free service
- Flexibility in mounting with either a socket-type or semi-flush switchboard configuration
- Multiple versions available
- Optional instantaneous ammeter
- Optional primary scale kits
- Optional dual-range provides up-scale readings on lightly loaded circuits



HD ELECTRIC COMPANY

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OPERATION

The maximum current demand is indicated by a black pointer that is pushed up-scale by a red pusher-pointer attached to the thermal element. The black maximum demand pointer remains at the highest point to which it has been pushed until the meter has been read and manually reset. The reset on the ADF-7 is a pull-type reset located on the upper right side of the meter face, while the reset for the ADS-7 is located on the cover and is sealable.

The instantaneous indicating ammeter option shows the present instantaneous current. In addition, if the ammeter is monitoring a circuit breaker, it will "peg" on the reclose operation if the cause of the initial breaker operation has not cleared itself. To facilitate reading, primary scales are available for both the thermal scale and the instantaneous scale of both the ADF-7 and the ADS-7.

SPECIFICATIONS

Dimensions: ADF-7: 6 1/4" x 5 25/32" x 2 3/64"
(15.88cm x 14.61cm x 5.21cm)

ADS-7: 6 29/32" x 5 3/8"
(17.54cm x 13.65cm)

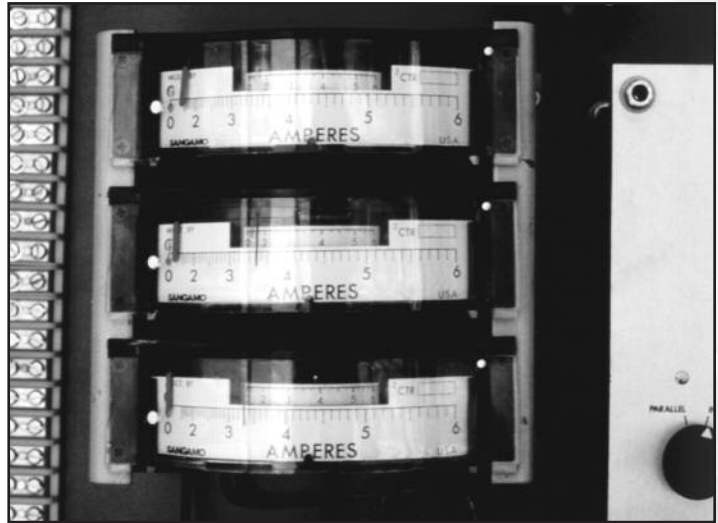
Weight: ADF-7: 1.5 lbs. (0.7kg)
ADS-7: 2.0 lbs. (0.9kg)

Thermal Response Interval: 5 minutes

Temperature Range: -4° F to 122° F
(-20 C to 50 C)

ACCESSORIES

- Scale Kits



ADF-7 flush mounted in switchboard application.



ADS-7 socket mounted version in substation application.

ORDERING INFORMATION

		ADF-7 SEMI-FLUSH TYPE METER CATALOG NUMBER		ADS-7 SOCKET-TYPE METER CATALOG NUMBER	
Current Rating	Scale Reading*	Without Instantaneous Ammeter	With Instantaneous Ammeter	Without Instantaneous Ammeter	With Instantaneous Ammeter
1.5 amp	0 – 1.5 A	N/A	81884	N/A	N/A
3 amp	0 – 3 A	81855	81856	81869	81870
5 amp	0 – 5 A	81851	81852	81865	81866
6 amp	0 – 6 A	81853	81854	81867	81868
10 amp	0 – 10 A	81857	81858	81871	81872
2.5/5 amp	0 – 5 A	81859	81860	81873	81874
3/6 amp	0 – 6 A	81861	81862	81875	81876
4/8 amp	0 – 8 A	N/A	N/A	81877	81878
5/10 amp	0 – 5 A	81863	81864	81879	81880

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HD Electric Company is committed to ongoing review and improvement of its product lines, and thus reserves the right to modify product design and specifications without notice.

HD Electric Company products are available through HDE sales representatives worldwide.

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*Optional factory installed dial face scale kits are available to reflect actual current readings.