

# Chance LoadLooker Ammeter

## Catalog Nos. MEAMP11RW, MEAMP21RW, MEAMP32RN, MEAMP32RN2

# Operator's Manual

## Safety Information

The LoadLooker is designed for use when attached to a suitable universal hot stick. All precautions appropriate for the line voltage should be taken. The hot stick should be considered the sole voltage isolation device.

## Specifications

The LoadLooker has been developed specifically for measurement of AC current in the electrical utility industry. This instrument can be used remotely with any hotstick and universal adapter. It will measure current 2,000 amperes/5,000 amperes on two auto-ranging scales. The instrument has no moving parts and does not require clamping onto the wire. The instrument case is water resistant and high-impact resistant.

The True RMS feature allows accurate measurement of current even when the nominal waveform is distorted or when harmonics are present. This may be the case with Y connected transformer neutral leads and distribution to many industrial customers using SCR controllers and other switching devices.

The following specifications apply:

Catalog No.	Max. Voltage (Ø-Ø)	Max. Current	Jaw Size
MEAMP11RW	Up to 69kV	Up to 2,000 amps	3.86"
MEAMP21RW	Up to 400kV	Up to 2,000 amps	3.86"
MEAMP32RN	Up to 500kV	Up to 5,000 amps	2.50"
MEAMP32RN2	Up to 500kV	Up to 5,000 amps	2.50"

**Use with** appropriate length hot stick **with universal adapter**

**LCD display:** 3½-digit, true RMS

**0 - 5,000 amperes** with ±1% + 2 digits accuracy

**Auto-ranging:** 0 to 99.9 amp (0.1 amp resolution)  
100 to 1999 amp (1 amp resolution)  
2000-5000 amp ( 0.01 kA resolution)

**No moving parts** — Just slide wire between jaws.

**Peak current hold** — Position instrument in hard-to-see location with hotstick, then pull back to read current close up.

**Temperature range:** -30° to 60° C (-22° to 140° F)

**9 volt battery** power, long battery life, low battery indicator on display

**One button operation** with automatic power-off timer

**Automatic power-off** after several minutes of no activity

These instructions do not claim to cover all details or variations in equipment, nor to provide for all possible conditions to be met concerning installation, operation, or maintenance of this equipment. The presence of energized overhead lines in particular may necessitate alternate methods to prevent accidental contact with the lines. If further information is desired or if particular problems are encountered which are not sufficiently covered in this guide, contact A.B. Chance, a Division of Hubbell Power Systems, Inc.

NOTE: Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.

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Rev. A

210 N. Allen St., Centralia, MO 65240 USA

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# Chance LoadLocker Ammeter

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### Operating Instructions

The LoadLocker is controlled by the single push button switch located on the front panel, and is operated as follows:

1. **Press the control switch momentarily to turn on the LoadLocker.**

The LoadLocker is now in the normal measurement mode and the reading will continuously change as the current changes. To use the LoadLocker in this mode, place the current carrying wire between the two legs and observe the display. To ensure maximum accuracy, be sure the wire is below the notches on the legs. If the wire cannot be placed below the notches, readings can be taken but accuracy will be somewhat reduced.

### WARNING

Do not force or stress arms of the LoadLocker.

The High-Voltage True RMS LoadLocker will display the following as it conducts a start-up calibration process:

LOBAT HOLD	1.8.8.8
CAL	
0.0	

2. **Press the control switch a second time to go to the sample and hold mode.**

The LoadLocker is now in the sample and hold mode and this is indicated by the word "HOLD" appearing in the display. It will retain the highest reading reached before being reset. This allows it to be placed around the current carrying wire, and then returned to eye level where it may be easily read.

3. **Press the control switch a third time to clear the sample and hold reading.**

The LoadLocker is now returned to the normal mode. Alternate switch actuations change the LoadLocker between the normal mode and the sample and hold mode. Observe the word "HOLD" in the display to determine which mode the unit is in.

4. **The LoadLocker will turn itself off automatically after several minutes of inactivity.**

If it is desired to turn the unit off manually, press and hold the button down for 4 to 5 seconds.

### High-Voltage Operation

This instrument is designed to operate in high voltage fields. However, difficulty may be experienced when excessive corona to the instrument occurs. The unit may experience over range and require power to be cycled or may lose a reading when in the sample and hold mode. This may occur when the operating voltage load is exceeded.

### Battery Replacement

When the "LO BAT" indication shows on the display, the battery should be replaced. The unit will continue to operate for a few hours. The LoadLocker is powered by a single 9V battery. To replace the battery, remove the four screws on the battery cover at the rear of the unit. Carefully insert a screwdriver blade in the notch and pry the cover out, being careful not to damage the cover seal. Pull the battery out of the compartment and separate the battery from the battery connector. To avoid breaking the battery leads do not pull on the battery only. Install a fresh battery and reinsert the battery in its compartment. Reinstall the cover by gently pressing it into place while pulling out on the edges of the compartment, and reinstall the four cover screws. Take care to avoid overtightening the screws. Always reuse the screws provided and do not damage or lose the o-ring seal on each screw.

### Cleaning

The LoadLocker can be cleaned by wiping with a small amount of alcohol on a rag. Do not use too much alcohol and use it only on the urethane case. Do not get the alcohol on the front or rear panels. The paint and lettering will be damaged by alcohol.