

# AMETEK

## Distribution Monitoring

### LOADLOGGER LL-230A

The LOADLOGGER is a rugged digital recording ammeter for non-invasive recording of distribution line currents. Using a hot stick, the LOADLOGGER clamps onto overhead lines up to 69 kV and can record up to 1000 amps with 1 amp resolution.

Up to 66 days of load data can be stored by the LOADLOGGER and then downloaded to a personal computer where the data is analyzed using our LOADSMART® software.



### LL-230A Specifications

**Conductor Size:** 0.2 to 1.093 inches diameter (Max. 795 MCM). A rubber adapter is used for bare or insulated conductor diameter 0.2 to 0.4 inches.

**Maximum Conductor Voltage:** 69 kV

**Current Range:** 0-1000 amps

#### Battery Life:

Lithium batteries: 1 year minimum  
Can be supplemented by a standard 9 V alkaline battery.

#### Memory:

Recording memory is user selectable to stop when full or continuously record on a first-in, first-out basis.

Data storage capacity is determined by averaging interval selected.

Averaging Interval	Maximum Storage
15 min.	66 days
5 min.	22 days
1 min.	4.5 days

**Resolution:** 1 Amp

**Accuracy:** <5% of reading

**Internal Clock Accuracy:** One minute per 2 weeks over specified temperature range.

**Operating Temperature Range:** -40°C to +55°C

**Weight:** 5.0 lbs. (2.3 kg) nominal

#### Environment:

Lifetime warranty for water-resistance

### Computer Interface Adapter Specifications

**Computer Connector:** Standard 25 pin D-type female connector. Connects to com 1, 2, 3 or 4 on PC. 9 pin connector also available.

#### Power:

AC adapter or 9 V alkaline battery

**AC Adapter:** Standard AC adapter is alternative power source

**Battery Check:** Voltage level factory set to 6.95 V to verify life of lithium battery in LL

### LCD Module Specifications

**Display Type:** Liquid Crystal – Display 1" high digits

**Update Frequency:** Display is updated every 3 seconds.

**Mounting:** Attached to LOADLOGGER at the serial interface connector.

**Power Supply:** Operates directly from the LOADLOGGER's battery.

**Operating Temperature:** 0°C to +40°C

**Dimensions:** 5.84 x 2.5 x 1.3 inches (150mm x 64mm x 34mm) nominal

---

## Load Profiler LP-260



The Load Profiler is a rugged, non-invasive digital recording ammeter for simple, cost effective collection of load data on your power circuits.

To monitor and record line currents, clip the split-core current transformer (CT) to any conductor up to 700 volts, or any insulated cable under 2" diameter—even underground distribution cables.

The Load Profiler can be used as a hand-held ammeter for instantaneous current readings, or can be left on-site to collect up to 66 days of data. Current readings from 0-1000 amps, are averaged and stored at a user selected time interval. The recorded data is then transferred to a computer to generate current vs. time load profiles for load management analysis.

## LP-260 Specifications

**Operating voltage:** 0-700 volts on non-insulated cables unlimited on insulated cables

**Current Range:** 0-1000 amps

**Resolution:** 1 amp

**Accuracy:**  $\pm 3\%$  of reading

**Temperature Range:**

-30°C to 55°C up to 800 amps

-30°C to 30°C up to 1000 amps

(Display operation is 0° to 40°C)

**Cable:** Up to 2" outside diameter

**Memory:**

Averaging Interval	Maximum Storage
15 min.	66 days
5 min.	22 days
1 min.	4.5 days

**Dimensions:**

Housing:	3" x 2" x 6"
CT:	4" outside diameter
Cord:	6 feet long
Weight:	1.7 lbs.

# AMETEK

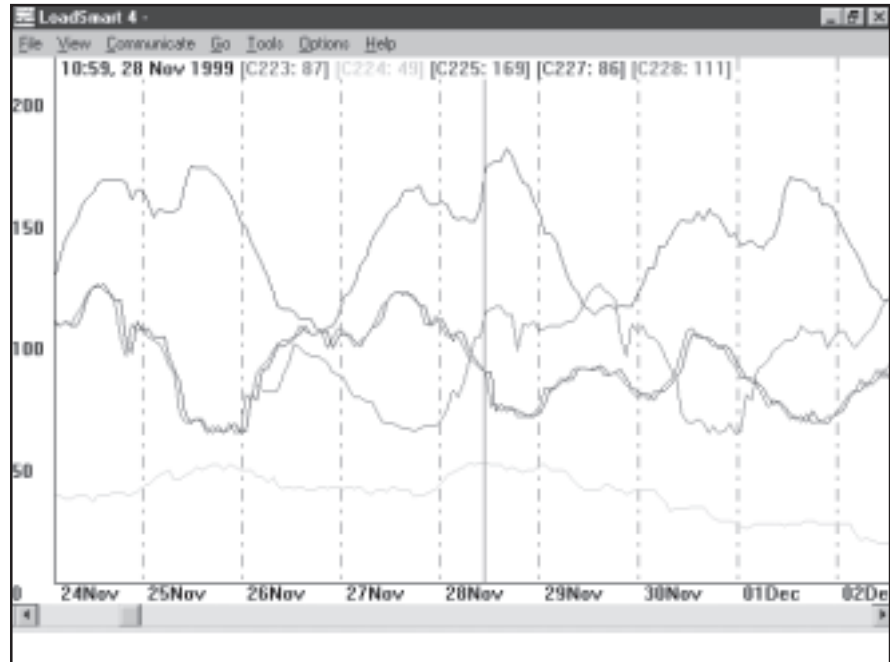
## Distribution Monitoring

### LOADSMART Software

LOADSMART Software is a powerful tool for analyzing load data. The software allows you to initialize each recorder and then load data is transferred to a computer and time stamped to real time using LOADSMART.

LOADSMART is used for both LOADLOGGERS and Load Profilers and performs the following functions:

- Initialize recorder
- Download recorded data to personal computer
- Time stamp data to real time
- Obtain minimum and maximum readings
- Add, subtract, or average time coincident files
- Convert data values to spreadsheet formats



*Time of day load fluctuations*

#### Hardware requirements:

- IBM compatible computer
- Windows® 3.1, '95, '98 or NT
- RS-232 serial port

### Ordering

Please specify the complete model number of the kit or single logger required.

#### LOADLOGGERS

Model	Description
LL-230	single phase LOADLOGGER module
LL-231	3 phase starter kit. Includes the following as standard: 3 LL-230 single phase modules LOADSMART software 1 Computer Interface Adapter 1 LCD display Instruction Manual Carrying case
LL-232	3 phase kit. Includes the following as standard: 3 LL-230 single phase modules Carrying case

#### Peripheral Items and Spares

Model	Description
LL-233	Computer interface adapter
LL-234	LCD display for use with LL-230
LL-235	Carry case for use with LL-231 or LL-232
	Spare lithium battery pack for use with LL-230