



## Renting the PhaseTrakker®

The PhaseTrakker® unit is available for rental by IAMU members at the following rates:

- ✓ **First week of rental**  
\$1,000
- ✓ **Second week of rental**  
\$1,000
- ✓ **Three weeks or more of rental**  
\$500 per week



## Training

IAMU Electric Services Coordinator Tom Erickson will accompany the PhaseTrakker® to instruct



the renter on the operation of the unit for an additional charge of \$660.

If the unit is picked up at the IAMU Office & Training Complex in Ankeny, the instruction will be performed there at no additional charge.



**For additional information, or to arrange rental of the PhaseTrakker®, contact Tom Erickson at [terickson@iamu.org](mailto:terickson@iamu.org), or 800-810-4268.**



## Iowa Association of Municipal Utilities

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[www.iamu.org](http://www.iamu.org)

**“To support and strengthen Iowa’s municipal utilities”**



IOWA  
ASSOCIATION OF MUNICIPAL  
UTILITIES

# Easy phase identification for IAMU members



## PhaseTrakker®

**Available for rent by IAMU member electric utilities**



IOWA  
ASSOCIATION OF MUNICIPAL  
UTILITIES

- ▶ Stop guessing about phasing
- ▶ Eliminate safety hazards
- ▶ Save time and money



## How the PhaseTrakker® works

Using GPS technology, the PhaseTrakker® continuously measures voltage phase angles at both the Field and Reference Units, compares angles over a phone connection and displays the results on the Field Unit.

If cellular coverage is not available, the Field Unit stores readings until coverage is reached, then compare readings with the Reference Unit for Phase ID.



## AP 30 Field Unit

- Receives phase reading from Hotstick Unit.
- Synchronizes phase with GPS time.
- Compares phase reading with Reference Unit and determines absolute phase and phase angle.
- Displays data on easy-to-read LCD screen.
- Stores 1,000 readings; automatically resolves any readings taken outside cellular range.
- Simple calibration for A-phase declaration.
- Automatically connects to second Reference Unit if required.



## AP30 Reference Unit

- Communicates with Field Unit via cellular network — no phone line needed.
- Connects to 120V AC wall outlet or screw terminals (flying leads).
- Synchronizes voltage phase with GPS time.
- Sends results to Field Unit on demand.
- Retains one month of data.
- Rack-mount or portable units available.

## Benefits of Phase Tracking

- Allows absolute phase ID and angle on entire systems
- Balances loads to minimize line loss
- Achieves correct phasing for system mapping
- Ensures new substation connections are phase correct
- Eliminates tedious visual tracing
- Exports results for use in GIS systems
- Works on overhead and underground conductors
- Tests without de-energizing power lines
- Works on 120V to 500 kV systems



Also works with underground electric systems



## AP 30 Hotstick Unit



- Detects and sends voltage phase to Field Unit via FM signal up to 100 ft.
- Voltages range of 120V to 500kV.
- Works on live OH conductor, UG elbows or test points, bus bar and any low-voltage connections.
- Removable sensor box and test lead facilitate low-voltage phasing.
- 12 in. extension included for close work in UG vaults, transformers, etc.