

# Phase Identification

Quickly and accurately —  
anytime, anywhere



Stop guessing about phasing!  
**Eliminate safety hazards** while saving  
time and money.



## Benefits

- Get absolute phase ID and phase angle on entire systems
- Balance loads to minimize line loss
- Achieve correct phasing for system mapping
- Ensure new substation connections are phase correct
- Eliminate tedious visual tracing
- Export results for use in your GIS system
- Works on overhead and underground conductors
- Tests without de-energizing power lines
- Works on 120V to 500kV systems

## How it works

Using GPS technology, the PhaseTrakker continuously measures voltage phase angles at both the Field and Reference Units, compares the angles over a phone connection and displays the results on the Field Unit. Where cellular coverage is not available, the Field Unit can store readings until cellular coverage is reached, then compare its readings with the Reference Unit for Phase ID.



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Avistar



**"The AP30 PhaseTrakker consistently saves us time and money. Whether we're system mapping, balancing loads or working on substation connections, we depend upon the AP30 for accurate phase identification."**

— David Vetter, NV Energy

## Principles of Operation



### AP30 Reference Unit

- Communicates with Field Unit via cellular network; no phone line needed
- Connects to 120 V 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

### AP30 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 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.