ndb

Advanced and Innovative Solutions

SPI-III™ True Phase Identification System (GPS)

Our vision has always been to create a phase identification system that exceeds any of today's industry quality, safety and efficiency requirements. SPI-III's unique design consists of a wireless bi-module combo that is stunningly easy to configure and operate. With many advancements and innovations, SPI-III will be more helpful than ever before, enabling field applications such as identification of A-B-C electrical phases from all 50 and 60 Hz networks, switchgear phase concordance (matching), phase rotation, system paralleling, underground phasing applications and more.

CONSIDER IT SOLVED

SPI-III performs like no others thanks to its top of the line software and hardware integration. The philosophy behind its years of development is to create a rugged tool made for field that you can count on anytime. The mobile unit allows the user to positively identify the phases on any area of an overhead or underground network, no matter the physical distance separating it from the reference module.

FREEDOM, HANDS FREE

The SPI-III wireless display unit can be strapped on the arm of the operator so that the readings are always in sight without obstructing the view for maneuvers with the hotstick. Acquired data saving is done at a touch of a button.

HIGH PERFORMANCE

Phase measurements are quickly taken in real time as the wireless phase display module is fast and responsive. Live measurements are made by comparing readings from the reference module installed on a known phase A. The SPI-III time reference relies on precise GPS satellite signal for flawless accuracy.

Considering fleet deployment? No problem; a limitless number of field units can synchronize measurements with a single reference unit!

UNDERGROUND PHASING

Using the SPI-III in underground facilities or inside concrete buildings is easily achieved even in case of cellular and/or GPS network loss. The measurements are normally taken, and the results will show up when the SPI-III is back to communication link.

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TECHNICAL SPECIFICATIONS

Phasing resolution	± 1°
Wireless range	Main Field unit and wireless display unit: 30 meters / 100 ft range, typical
SPI-III Reference unit	• Two reference inputs (CAT-III 600V, CAT-IV 300V) • Ethernet port • Power input • External GPS connection interface • 50/60Hz
SPI-III-Field Unit	• 4 AA Batteries • Autonomy: 30 hours of continuous phasing • CAT-III 1000V / CAT-IV 600V low voltage phasing direct contact • Up to 72 kV medium voltage direct contact using hotstick • Non-contact up to 800kV • Capacitive test port input • Switchgear half rectified voltage indicator port measurements. • IP-67 rating • 50/60Hz

APPLICATIONS

- Planning, operation and maintenance of electrical network
- Network equipment installation
- Installation of measuring and tele-measurement equipment (SCADA)
- Network parallelism
- Balancing of charges between phases
- Geo-referenced mapping of network's points
- Reconstruction of overhead networks following natural disasters
- Network documentation update

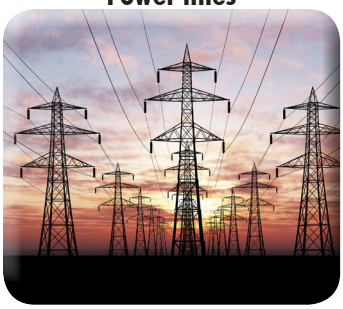
EXCLUSIVE ADVANTAGES

- True phasing for all applications at any voltage
- Live true phasing
- Reading accuracy of ± 1°
- GPS satellite network synchronization
- Fast setup, ready to operate in seconds
- No network de-energisation required
- All-day battery life
- Encrypted and robust communication technology
- Underground time-delayed phase id mode
- Local or cloud based deployment

Distribution/Residential

Underground

Power lines



Switchgear

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