



USC1000 UNDERGROUND SWITCH CONTROL



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Features

- Robust processing and storage capability
- Remote Event Logging and Real-Time Analysis
- Secure TCP/IP communications
- Dual communication network capability supports cellular, satellite, RF and wired networks
- Vault mounted submersible all stainless steel enclosure
- Traffic rated ground level antenna
- Remote operation or locally via pendant control
- Status LED indicators
- Battery backup
- Meets NERC/FERC security standards

Benefits

- Automate legacy equipment
- Improved system reliability minimizes outages

Applications

- Remote Data Retrieval and Remote Diagnostics
- Secure SCADA for distribution automation
- Legacy switch control retrofits

The Natis Underground Switch Control (USC) is fully submersible and combines powerful application processing with secure communications for automating underground devices.

The Natis USC enables remote monitoring, diagnostics, configuration and SCADA for your underground devices.

Powerful Applications

The USC Underground Switch Control enables programmable logic for Event Logging and Data Analysis, Remote Configuration, Remote SCADA operations and time based device profile management. The powerful processing capabilities enable high volume data sampling for extremely accurate real-time analysis, the ability to spot trends and automatically reconfigure the network. The robust storage capabilities enable capture of granular data around events to pinpoint the cause of failures.

Intelligent

The USC supports multiple motor operators, Current Transformers (CTs) and Power Transformers (PTs). The USC's load and fault data monitoring capabilities ensures real time load reads for future growth planning and fault detection for isolation, sectionalizing, and restoration.

Flexible Communications

The USC provides secure TCP/IP communications over cellular, satellite, RF or wired connectivity allowing you to choose the most cost effective and reliable communication interface. Its unique dual communication network capabilities enables fully redundant communication paths to ensure high availability. A ground level mount antenna can be installed on either the side or top cover of the vault. The USC can be operated remotely (via SCADA) or locally from a pendant control.

Compatible and Reliable

The USC is compatible with any type of distribution switch equipment and any wired or wireless communications network. The USC features submersible cables for convenient connection to existing remote equipment. Also included is a 24 volt programmable battery charger with battery test capability powered by local 120v.

The most cost-effective, powerful and reliable remote automation solutions.



USC1000 SPECIFICATIONS

GENERAL

- **Physical:** 20.5"L x 17.5"W x 8.5"D
All stainless steel
- **Power Supply: Local** 120 volts AC 60 HZ
- **Battery Supply** 24VDC
- **Power Supply Connection:** Water tight stainless steel connector
- **Equipment Connectors** Stainless steel water tight
- **Serial Connection:** RS232 DB9 connector
- **Operating Temperature:** -20° to +70° C for main processor (communications cards vary)

Security

- **RSA** Key Exchange
- **3-DES** encryption
- **AES** encryption

Wireless

- **WiFi (802.11)**
- **CDMA 1X/EV-DO** Verizon, others
- **GSM/GPRS:** Cingular, T-Mobile, others
- **Satellite:** GlobalStar, others
- **Antenna Connection:** N-Female 50 Ohm
Optional multi-phase protection available
Optional coax RF transient protector

Wired

- Ethernet
- Fiber
- DSL
- Cable-modem
- Power-line carrier
- Dial-up

Natis Communications Corporation
18440 TECHNOLOGY DRIVE, SUITE 140
MORGAN HILL CA 95037-2881 USA
www.natiscommunications.com

OFFICE +1.408.779.5500
FAX +1.408.779.5700
info@natiscommunications.com