

Substation Automation and Protection Division

## ORION Quick Start Guide For The Conitel C300 Or C2020 To ABB Protective Relays Using Modbus

*This Quick Start Guide shall enable the user to attach a single ABB 2000R series protective relay to the ORION unit communicating over a 485 physical cable connection.*

*Required equipment:*

- A. ORION UNIT
- B. ONE ABB PROTECTIVE RELAY (TPU/GPU/DPU 2000R)
- C. IBM Compatible PC with DOS 5.0 (or greater), Windows 3.1, 95, or 98 installed.
- D. ONE CABLE ASSEMBLY KIT WHICH CONTAINS:
  - a. One RS 232 Cable.
  - b. One RS 485 Cable.
  - c. One Troubleshooting Diskette.

1. Apply power to the universal power supply according to the markings on the unit as shown in Figure 1 illustration 1. The unit accepts voltages from 55 to 200 V a.c. or 20 to 280 V d.c.

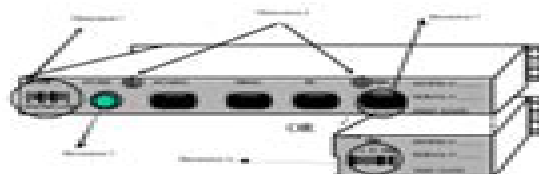
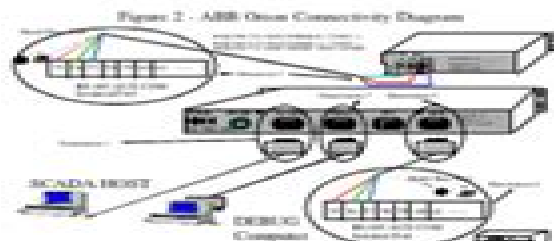


FIGURE 1 ORION Connector Location

2. Connect the SCADA host to the ORION SCADA MASTER RS 232 port with a 9 pin D shell connector. The cable end should mate with the ORION's male connector. The unit is a DTE pinout and a custom cable may have to be developed for your application since SCADA Host RS 232 connections, handshaking requirements vary per each manufacturer. The ORION SCADA MASTER RS 232 port connection is shown in Figure 2 illustration 1.



# Abb Protective Relay Application Guide

**G Psacharopoulos**



## **Abb Protective Relay Application Guide:**

The Relay Testing Handbook #1D Chris Werstiuk, 2007 As the first of The Relay Testing Handbook series Electrical Fundamentals for Relay Testing contains the underlying electrical theory that all relay testers should understand This information provides a foundation that all other handbooks in the series use when describing the most common protective elements how they function and the most effective and efficient procedures used to test them Even experienced relay testers can benefit from having this manual on hand as a quick reference when facing an unfamiliar relay testing situation Use the practical examples outlined in this volume to help you Understand the three phase electrical system Create and understand phasor diagrams Apply Delta and Wye connections Understand the power triangle Understand basic transformer theory Understand current and potential transformers and connections Recognize the most common fault types and when to apply them Recognize the most common system grounding techniques Calculate positive negative and zero sequence components Understand why and how protective relays are applied Paperback 102 pages Trim Size 8 5x11 Publisher Valence Electrical Training Services LLC Language English ISBN 13 978 1 934348 04 8 LCCN 2012934170      **Protective Relaying** Walter A. Elmore, 2003-09-09 Targeting the latest microprocessor technologies for more sophisticated applications in the field of power system short circuit detection this revised and updated source imparts fundamental concepts and breakthrough science for the isolation of faulty equipment and minimization of damage in power system apparatus The Second Edition clearly describes key procedures devices and elements crucial to the protection and control of power system function and stability It includes chapters and expertise from the most knowledgeable experts in the field of protective relaying and describes microprocessor techniques and troubleshooting strategies in clear and straightforward language      *Electric Relays* Vladimir Gurevich, 2018-10-03 Electric relays pervade the electronics that dominate our world They exist in many forms fulfill many roles and each have their own behavioral nuances and peculiarities To date there exists no comprehensive reference surveying the broad spectrum of electric relays save one *Electric Relays Principles and Applications* This ambitious work is not only unique in its scope but also in its practical approach that focuses on the operational and functional aspects rather than on theory and mathematics Accomplished engineer Dr Vladimir Gurevich builds the presentation from first principles unfolding the concepts and constructions via discussion of their historical development from the earliest ideas to modern technologies He uses a show not tell approach that employs nearly 1300 illustrations and reveals valuable insight based on his extensive experience in the field The book begins with the basic principles of relay construction and the major functional parts such as contact and magnetic systems Then it devotes individual chapters to the various types of relays The author describes the principles of function and construction for each type as well as features of several relays belonging to a type that operate on different principles Remarkably thorough and uniquely practical *Electric Relays Principles and Applications* serves as the perfect introduction to the plethora of electric relays and offers a quick reference guide for the experienced

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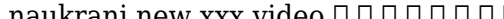
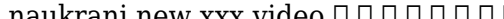
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