



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.

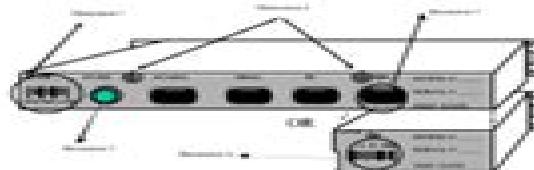
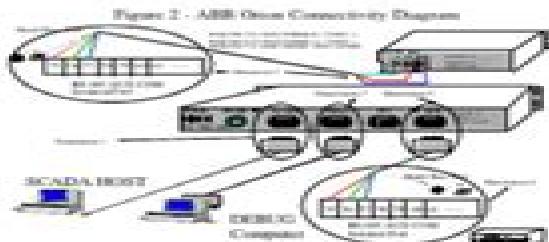


FIGURE 1: ORION Connector Locations

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

engineer *Electrical Power System Protection* C. Christopoulos,A. Wright,2013-04-18 The death of Professor Arthur Wright in the summer of 1996 deprived me of a friend and a colleague whose judgement and experience shaped this book I pay tribute to his contributions to protection and electrical engineering education In the five years since the first edition appeared many developments have taken place and it is now necessary to update the book The use of digital communications and advanced signal processing techniques is now widespread and several fully numeric relays are available from manufacturers Two new Chapters 13 and 14 have been added to introduce readers to these concepts and associated techniques Artificial intelligence is making its impact in all engineering applications and power system protection is no exception Expert systems fuzzy logic artificial neural networks adaptive and integrated protection synchronized measurements using the global positioning system genetic algorithms flexible a c transmission systems are some of the techniques considered in connection with protection Although many of these techniques have not yet found major application in protection it is nevertheless essential for the educated protection engineer to have a basic understanding of the underlying principles and methodology so that he or she can evaluate their suitability for new relaying problems and applications Chapter 15 was therefore added to guide readers through this developing area I have also added some new material in other chapters to reflect changes over the past years

**Handbook of Electrical Engineering** Alan L. Sheldrake,2003 Sheldrake offers a practical treatment of power system design within the oil gas petrochemical and offshore industries He provides a balance between sufficient mathematical theory and comprehensive practical application knowledge

Power System Stability and Control Leonard L. Grigsby,2007-05-30 Updated with the latest developments and advances the second edition of The Electric Power Engineering Handbook has grown so much that it is now presented as a set of five books Now this authoritative coverage is available in easily digestible portions that are tightly focused and conveniently sized Completing the set Power System Stability and Control outlines the dynamics operational aspects and protection issues of power systems related to stability and control In addition to updates and revisions throughout the chapters it includes new sections in the areas of small signal stabilit

**4th International Conference, Power System Protection and Automation, 21-22 November 2007, New Delhi, India** ,2007

*Electrical World* ,1994 **Electric Power System Protection and Coordination** Mike Anthony,1995 A guide to the implementation of electric power protection in both new and existing systems Focusing on systems in the low to medium volt range the book helps in the solution of protection and co ordination problems by use of microcomputers as well as more traditional methods

Proceedings of EMPD ,1998 **Seventh International Conference on AC-DC Power Transmission, 28-30 November 2001** ,2001 This volume constitutes the conference proceedings of the Seventh International Conference on AC and DC Power Transmission

Thomas Register of American Manufacturers and Thomas Register Catalog File ,2002 Vols for 1970 71 includes manufacturers catalogs

**Protection of Electricity Distribution Networks** Juan M. Gers,E. J. Holmes,1998 Descripc i n del editor High quality

electrical service is everyday more stringent in utilities and industrial facilities around the world One of the main players to achieve this is the protection system which has to be reliable fast and with a good cost benefit ratio Protection of generation and transmission systems are also treated in the text References to modern topics such as the Distributed Generation Smart Grid and Standard IEC 61850 have been introduced Written by two well experienced engineers who combine a comprehensive theoretical background with examples and exercises this book will allow the reader to easily follow the ideas explored IET *IEEE Conference Record of ... Industrial and Commercial Power Systems Technical Conference* ,1999

Standard Handbook for Electrical Engineers Sixteenth Edition H. Wayne Beaty,Donald Fink,2012-08-30 THE MOST COMPLETE AND CURRENT GUIDE TO ELECTRICAL ENGINEERING For more than a century the Standard Handbook for Electrical Engineers has served as the definitive source for all the pertinent electrical engineering data essential to both engineering students and practicing engineers It offers comprehensive information on the generation transmission distribution control operation and application of electric power Completely revised throughout to address the latest codes and standards the 16th Edition of this renowned reference offers new coverage of green technologies such as smart grids smart meters renewable energy and cogeneration plants Modern computer applications and methods for securing computer network infrastructures that control power grids are also discussed Featuring hundreds of detailed illustrations and contributions from more than 75 global experts this state of the art volume is an essential tool for every electrical engineer Standard Handbook for Electrical Engineers 16th Edition covers Units symbols constants definitions and conversion factors Electric and magnetic circuits Measurements and instruments Properties of materials Generation Prime movers Alternating current generators Direct current generators Hydroelectric power generation Power system components Alternate sources of power Electric power system economics Project economics Transmission systems High voltage direct current power transmission Power system operations Substations Power distribution Wiring design for commercial and industrial buildings Motors and drives Industrial and commercial applications of electric power Power electronics Power quality and reliability Grounding systems Computer applications in the electric power industry Illumination Lightning and overvoltage protection Standards in electrotechnology telecommunications and information technology Guide for Safety in Alternating-current Substation Grounding American Institute of Electrical Engineers,1961 **3rd International Conference, Power System Protection and Automation, 17-18 November, 2004, New Delhi, India** ,2004 Diesel Generator Handbook L. L. J. Mahon,1992-09-23 This book is an authoritative reference work covering the range of mechanical and electrical topics embodied in the practical design and application of diesel generating plant Water and Energy International ,2014

*Modern Power Systems* ,1989

## Reviewing **Abb Protective Relay Application Guide**: Unlocking the Spellbinding Force of Linguistics

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