



The PACSystems Power Sync and Measurement (PSM) system monitors two independent three-phase power grids. It incorporates advanced digital signal processor (DSP) technology to continuously process three voltage inputs and four current inputs for each grid. Measurements include RMS voltages, RMS currents, RMS power, frequency, and phase relationship between the phase voltages of both grids.

The PSM module performs calculations on each captured waveform, with the DSP processing the data in less than two-thirds of a power line cycle. The PSM module can be used with wye or delta type three-phase power systems or with single-phase power systems.

The PSM system can be used for applications such as:

- Electrical power consumption monitoring and reporting
- Fault monitoring
- Generator control features for generator to power grid synchronization
- Demand penalty cost reduction/load shedding

The PSM system consists of:

- **PSM module** – A standard IC694 module that mounts in an RX3i rack. The PSM module provides the DSP capability.
- **Terminal Assembly** – A panel-mounted unit that provides the interface between the PSM module and the input transformers.
- **Interface cables** – Provide the GRID 1 and GRID 2 connections between the PSM module and the Terminal Assembly.

#### **PSM System Features**

- Uses standard, user-supplied current transformers (CTs) and potential transformers (PTs) as its input devices.
- Accurately measures RMS voltage and current, power, power factor, frequency, energy, and total three-phase 15-minute power demand.
- Provides two isolated relays that close when the voltage phase relationships between the two monitored grids are within the specified ANSI 25 limits provided by the RX3i host controller. These contacts can be used for general-purpose, lamp duty or pilot duty loads. Voltage and current ratings for these load types are provided in GFK-2749, *PACSystems RX3i Power Sync and Measurement System User's Manual*.
- Provides a cable monitoring function that indicates when the cables linking the PSM module and Terminal Assembly are correctly installed.
- PSM module and Terminal Assembly are easily calibrated by hardware configuration using the Proficy\* Machine Edition (PME) software.

#### **Ordering Information**

IC694PSK001	PSM System, includes a PSM module, a Terminal Assembly and two interface cables
IC694PSM001	Replacement PSM module
IC694ACC200	Replacement Terminal Assembly
IC694CBL200	One replacement 2m (6.56 ft.) interface cable
IC694ACC201	PSM replacement parts: two finger guards four thumb screws one relay connector two grounding lug nuts

# Rx3i Instruction Manual

**Didier Musso**



## **Rx3i Instruction Manual:**

**Instrument Engineers' Handbook, Volume 3** Bela G. Liptak, Halit Eren, 2018-10-08 Instrument Engineers Handbook Volume 3 Process Software and Digital Networks Fourth Edition is the latest addition to an enduring collection that industrial automation AT professionals often refer to as the bible First published in 1970 the entire handbook is approximately 5 000 pages designed as standalone volumes that cover the measurement Volume 1 control Volume 2 and software Volume 3 aspects of automation This fourth edition of the third volume provides an in depth state of the art review of control software packages used in plant optimization control maintenance and safety Each updated volume of this renowned reference requires about ten years to prepare so revised installments have been issued every decade taking into account the numerous developments that occur from one publication to the next Assessing the rapid evolution of automation and optimization in control systems used in all types of industrial plants this book details the wired wireless communications and software used This includes the ever increasing number of applications for intelligent instruments enhanced networks Internet use virtual private networks and integration of control systems with the main networks used by management all of which operate in a linked global environment Topics covered include Advances in new displays which help operators to more quickly assess and respond to plant conditions Software and networks that help monitor control and optimize industrial processes to determine the efficiency energy consumption and profitability of operations Strategies to counteract changes in market conditions and energy and raw material costs Techniques to fortify the safety of plant operations and the security of digital communications systems This volume explores why the holistic approach to integrating process and enterprise networks is convenient and efficient despite associated problems involving cyber and local network security energy conservation and other issues It shows how firewalls must separate the business IT and the operation automation technology or AT domains to guarantee the safe function of all industrial plants This book illustrates how these concerns must be addressed using effective technical solutions and proper management policies and practices Reinforcing the fact that all industrial control systems are in general critically interdependent this handbook provides a wide range of software application examples from industries including automotive mining renewable energy steel dairy pharmaceutical mineral processing oil gas electric power utility and nuclear power *SRL-22* ,1968 **RL-43** ,1970 *X-over 3 Pro User Manual* D. E. Harris, 2013-12-21 The X over 3 Pro User Manual is the how to book for the passive crossover network design software by Harris Tech The software and software license are NOT included and must be purchased separately from Harris Tech or one of its authorized distributors This is the 5th edition of the book 2013 and its instructions apply to version 3 0 18 or later of the X over 3 Pro software The 247 page User Manual is generously illustrated and includes an introductory Crossover Network Designer s Guide and an in depth X over Pro Reference section describing the many features of the software Also included are several appendixes with a list of command shortcuts glossary of terms driver shapes suggested reading driver

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Manual of Instruction American X-Ray Equipment Co., Inc., New York,1917      RS/1 User's Manual Bolt, Beranek, and Newman, inc,1979      Xi Imperial Cancer Research Fund,Expertech,1985      **User Manual for Program RODES3** N. Galanis,1980      **Model 80 MICRO- instruction reference manual** ,1973      **RAPID User Manual** ,1993      **Harris RTXDS** Harris Corporation. Melbourne, Fla.. Semiconductor Products Division,1988      **User Manual for Program RODES2** N. Galanis,1980      **S+Dox** ,1994      **XRAY User's Manual** Tandem Computers (Firm),1981      Ramis 2 ,1983

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