



FOCUS+

GSM/GPRS Smart Modems

Designed for a rapidly changing gas industry, the Focus+ is a key product of AMR solutions for Itron commercial and industrial (C&I) gas electronic devices. This smart modem provides transparent communication between data collection software tools and devices in the field, using either GSM or GPRS communication networks. Thanks to an intuitive, user-friendly interface, the Focus+ is both easy to install and easy to operate. Focus+ offers gas network monitoring capabilities with up to four digital inputs that can be used for alarm retransmission by SMS. The Focus+ platform is available in two variants: Focus+ and Focus+ ATEX; Focus+ ATEX can be installed directly in hazardous zone 1 areas.

APPLICATIONS

C&I gas applications

FEATURES

- User-friendly interface for simplified commissioning and handling
- Can be installed in hazardous areas (Focus+ ATEX only)
- Ultimate communications flexibility from quad-band GSM and GPRS technologies (for both dynamic and fixed IP addresses)
- Five year battery life with daily communication (via GPRS)
- External power supply input (Focus+ only)
- Alarm notifications delivered by SMS
- Compatible with Itron C&I electronic gas devices including Corus, Dattus and Angus.

DESCRIPTION

Focus+ family of modems includes Focus+ and Focus+ ATEX that can be used with smart C&I meters (Dattus), volume converter (Corus) or SCV measurer (ANGus).

Both are GSM/GPRS modem, share a common architecture, common human/machine interface and most operational features.

The main difference between the two models is the installation area.

Focus+ is approved as associated device, thus it must be installed in safe area.

Focus+ ATEX is approved for installation in hazardous area (zone 1), ideal for reducing installation costs and risks of vandalism.

Focus+ ATEX is only battery powered, thus the GSM modem must be activated for a limited period of the day to transmit data and achieve maximal energy efficiency.

KEY BENEFITS

- Greater operational efficiency with remote data collection
- Reduced truck rolls, associated costs and CO₂ emissions
- Manage usage and resources with accurate, timely data
- Flexible operation with battery, mains or solar powered
- Proactive operations with meter alarms
- Simplified installation through large GSM/GPRS network coverage

Focus+ can be main or solar powered, which means that the modem can be active permanently.

Both Focus+ and Focus+ ATEX are able to use inbound connection in GPRS modem to predefined IP address in order to overcome private and dynamic IP addresses provided to modem from usual GSM/GPRS Data subscriptions.

Focus+ family is able to provide gas network monitoring with their digital inputs and can transmit their alarms, but also those from Corus volume converter, through SMS to a central system or field technicians cellular phone.

Itron Smart Meter Technical Manual

A Loxley



Itron Smart Meter Technical Manual:

Design & Development of Secure Smart Metering Systems Musaab Hasan, Arwa Ibrahim, 2020-01-27 In conjunction with the rapid growth in adopting smart devices the smart cities concept has been raised simultaneously in many modern societies A smart grid is an essential part of any smart city as both consumers and power utility companies benefit from the features provided by the power grid In addition to advanced features presented by smart grids there may also be a risk when the grids are exposed to malicious acts such as security attacks performed by terrorists Many vendors develop smart meters and at the same time many researchers have proposed various supported security systems however no security measures were considered in most of those designs This book presents a security study for smart metering systems with a prototype implementation for future works

Water Tech William Sarni, Tamin Pechet, 2013-10-08 This book unveils how the world in the twenty first century will need to manage our most fundamental resource need water It outlines how stakeholders can improve water use in their homes their businesses and the world In particular it focuses on the role of stakeholders in crafting a twenty first century paradigm for water Investors not only drive innovation through direct investment in new technologies but also by highlighting risk and driving reporting and disclosure within the business community Water Tech highlights the business drivers to address water related issues These include business disruption regulatory risk and reputational risk along with opportunities in the commercialization of innovative technologies such as desalination and water reuse and treatment The authors argue that through increased attention on water scarcity through activities such as reporting and disclosure we are now accelerating innovation in the water industry They show how we are just now capturing the true cost and value of water and this is creating opportunities for investors in the water sector The text takes the reader through key aspects of emerging innovative technologies along with case studies and key issues on the path to commercialization A roadmap of the opportunities in the water sector is presented based on interviews with leading authorities in the water field including innovators investors legal regulatory experts and businesses

[Angola Investment and Business Guide Volume 1 Strategic Information, Opportunities, Contacts](#) IBP, Inc., 2017-05-19 [Angola Investment and Business Guide Volume 1 Strategic and Practical Information](#)

Mergent Industrial Manual, 2003 [Smart Meters and California Water Agencies](#), 2010

Plunkett's Companion to the Almanac of American Employers 2006: The Only Complete Guide to the Hottest, Fastest-Growing Mid-Sized Employers Plunkett Research Ltd, 2006-02 This new volume contains profiles of nearly 500 of the best rapidly growing mid size employers of 100 to 2 500 employees These are highly successful companies located nationwide that are of vital importance to job seekers of all types

Electric Distribution Network Management and Control Ali Arefi, Farhad Shahnian, Gerard Ledwich, 2018-04-04 This book highlights the recent research advances in the area of operation management and control of electricity distribution networks It addresses various aspects of distribution network management including operation customer engagement and technology accommodation Electricity

distribution networks are an important part of the power delivery system and the smart control and management of distribution networks is vital in order to satisfy technical economic and customer requirements A new management philosophy techniques and methods are essential to handle uncertainties security and stability associated with the integration of renewable based distributed generation units demand forecast and customer needs This book discusses these topics in the context of managing the capacity of distribution networks while addressing the future needs of electricity systems Furthermore the efficient and economic operation of distribution networks is an essential part of management of system for effective use of resources and as such the also addresses operation and control approaches and techniques suitable for future distribution networks

The Homeowner's DIY Guide to Electrical Wiring David Herres,2015-01-23 A practical money saving guide to home electrical wiring Handle residential wiring projects correctly safely and according to the National Electrical Code NEC Filled with clear photos and helpful diagrams The Homeowner s DIY Guide to Electrical Wiring shows you how to quickly and easily navigate the portions of the NEC that pertain to residential installations This hands on resource covers basic electronics and explains how electrical service progresses through your home It describes how to install and test electrical systems and lighting repair appliances and TVs and upgrade to the latest innovations such as home networking home automation and alternate power systems You ll learn the procedures used by professional electricians to create the kind of quality work that will pass inspection and add value to your home The Homeowner s DIY Guide to Electrical Wiring shows how to Protect against fire and shock hazards Track electrical service from the point of connection to the entrance panel Follow NEC requirements for residential projects Work with test equipment and installation tools Use the best techniques for quality electrical work Design and install indoor and outdoor lighting Maintain and repair electrically powered appliances Fix CRT plasma and LCD TVs Design a data and communications network and install coax USB and Ethernet cabling Install a home automation system Install backup and alternate power systems Work with smart meters

Wireless Communications Networks for the Smart Grid Quang-Dung Ho,Yue Gao,Gowdemy Rajalingham,Tho Le-Ngoc,2014-09-19 This brief presents a comprehensive review of the network architecture and communication technologies of the smart grid communication network SGCN It then studies the strengths weaknesses and applications of two promising wireless mesh routing protocols that could be used to implement the SGCN Packet transmission reliability latency and robustness of these two protocols are evaluated and compared by simulations in various practical SGCN scenarios Finally technical challenges and open research opportunities of the SGCN are addressed Wireless Communications Networks for Smart Grid provides communication network architects and engineers with valuable proven suggestions to successfully implement the SGCN Advanced level students studying computer science or electrical engineering will also find the content helpful

Mergent Public Utility & Transportation Manual ,2003 *Telecommunication Networks for the Smart Grid* Alberto Sendin,Miguel A. Sanchez-Fornie,Inigo Berganza,Javier Simon,Iker Urrutia,2016-07-31 This

comprehensive new resource demonstrates how to build smart grids utilizing the latest telecommunications technologies Readers find practical coverage of PLC and wireless for smart grid and are given concise excerpts of the different technologies networks and services around it Design and planning guidelines are shown through the combination of electricity grid and telecommunications technologies that support the reliability performance and security requirements needed in smart grid applications This book covers a wide range of critical topics including telecommunications for power engineers power engineering for telecommunications engineers utility applications projecting in smart grids technologies for smart grid networks and telecommunications architecture This practical reference is supported with in depth case studies

Practical Industrial Internet of Things Security Sravani Bhattacharjee, 2018-07-30 Skillfully navigate through the complex realm of implementing scalable trustworthy industrial systems and architectures in a hyper connected business world Key Features Gain practical insight into security concepts in the Industrial Internet of Things IIoT architecture Demystify complex topics such as cryptography and blockchain Comprehensive references to industry standards and security frameworks when developing IIoT blueprints Book Description Securing connected industries and autonomous systems is a top concern for the Industrial Internet of Things IIoT community Unlike cybersecurity cyber physical security is an intricate discipline that directly ties to system reliability as well as human and environmental safety Practical Industrial Internet of Things Security enables you to develop a comprehensive understanding of the entire spectrum of securing connected industries from the edge to the cloud This book establishes the foundational concepts and tenets of IIoT security by presenting real world case studies threat models and reference architectures You ll work with practical tools to design risk based security controls for industrial use cases and gain practical know how on the multi layered defense techniques including Identity and Access Management IAM endpoint security and communication infrastructure Stakeholders including developers architects and business leaders can gain practical insights in securing IIoT lifecycle processes standardization governance and assess the applicability of emerging technologies such as blockchain Artificial Intelligence and Machine Learning to design and implement resilient connected systems and harness significant industrial opportunities What you will learn Understand the crucial concepts of a multi layered IIoT security framework Gain insight on securing identity access and configuration management for large scale IIoT deployments Secure your machine to machine M2M and machine to cloud M2C connectivity Build a concrete security program for your IIoT deployment Explore techniques from case studies on industrial IoT threat modeling and mitigation approaches Learn risk management and mitigation planning Who this book is for Practical Industrial Internet of Things Security is for the IIoT community which includes IIoT researchers security professionals architects developers and business stakeholders Anyone who needs to have a comprehensive understanding of the unique safety and security challenges of connected industries and practical methodologies to secure industrial assets will find this book immensely helpful This book is uniquely designed to benefit professionals from both IT and industrial

operations backgrounds **Cybersecurity Issues, Challenges, and Solutions in the Business World** Verma, Suhasini, Vyas, Vidhisha, Kaushik, Keshav, 2022-10-14 Cybersecurity threats have become ubiquitous and continue to topple every facet of the digital realm as they are a problem for anyone with a gadget or hardware device However there are some actions and safeguards that can assist in avoiding these threats and challenges further study must be done to ensure businesses and users are aware of the current best practices Cybersecurity Issues Challenges and Solutions in the Business World considers cybersecurity innovation alongside the methods and strategies for its joining with the business industry and discusses pertinent application zones such as smart city e social insurance shrewd travel and more Covering key topics such as blockchain data mining privacy security issues and social media this reference work is ideal for security analysts forensics experts business owners computer scientists policymakers industry professionals researchers scholars academicians practitioners instructors and students Electrical Standards and Product Guide ,2005 **Public Power** ,2001 Vols for include an annual directory issue **Glendale Water and Power Smart Grid Program** Craig R. Kuennen, 2015 **A Guide to Utility Automation** Michael Wiebe, 1999 This publication tells you how electricity is distributed measured and billed in order to prepare utilities for the selection and implementation of new solutions needed in an increasingly competitive market Mergent Public Utility Manual ,2002 *Valuation Handbook - U.S. Guide to Cost of Capital* Roger J. Grabowski, James P. Harrington, Carla Nunes, 2017-06-09 The Valuation Handbook U S Guide to Cost of Capital 2009 Essentials Edition includes two sets of valuation data Data previously published in the 2009 Duff Phelps Risk Premium Report Data previously published in the Morningstar Ibbotson 2009 Stocks Bonds Bills and Inflation SBBI Valuation Yearbook The Valuation Handbook 2009 U S Essentials Edition includes data through December 31 2008 and is intended to be used for 2009 valuation dates The Valuation Handbook U S Guide to Cost of Capital Essentials Editions are designed to function as historical archives of the two sets of valuation data previously published annually in The Morningstar Ibbotson Stocks Bonds Bills and Inflation SBBI Valuation Yearbook from 1999 through 2013 The Duff Phelps Risk Premium Report from 1999 through 2013 The Duff Phelps Valuation Handbook U S Guide to Cost of Capital from 2014 The Valuation Handbook U S Essentials Editions are ideal for valuation analysts needing historical valuation data for use in The preparation of carve out historical financial statements in cases where historical goodwill impairment testing is necessary Valuing legal entities as of vintage date for tax litigation related to a prior corporate restructuring Tax litigation related to historical transfer pricing policies etc The Valuation Handbook U S Essentials Editions are also designed to serve the needs of Corporate finance officers for pricing or evaluating mergers and acquisitions raising private or public equity property taxation and stakeholder disputes Corporate officers for the evaluation of investments for capital budgeting decisions Investment bankers for pricing public offerings mergers and acquisitions and private equity financing CPAs who deal with either valuation for financial reporting or client valuations issues Judges and attorneys who deal with valuation issues in mergers and acquisitions

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Telecommunications Spectrum Use by the Energy, Water and Railroad Industries Marshall W. Ross, Jeng F. Mao, 2002 Continued use of the spectrum is essential to the current and future operations of the energy water and railroad services which are vital components of the nation's critical infrastructure This book examines industry trends and advances in wireless telecommunications technology related to these industries Key issues are reviewed including congestion exclusivity reliance on commercial service costs redundancy and band allocation

Itron Smart Meter Technical Manual Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Itron Smart Meter Technical Manual**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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