

AMERICAN AUTO-MATRIX™

Product Designation:

■ UM11
MC1
MC2

■ UM11e
GC1

ELECTRICAL RATINGS

Power Input: Class 2
30VAC Nominal, 5A maximum

Load Output: Class 2
5A, 20 VAC up to 50°C
5A, 20 VAC up to 70°C

Signal Input: Class 2
30 VDC maximum

ENVIRONMENTAL EXTREMES

Temperature:

0° to 70°C

Humidity:
0 to 95% RH non-condensing

See Copper Conductor Only

Chassis

Terminal Block Torque

4.2 inch pounds maximum

This device complies with Part 15 of the FCC Rules.
Operation of this equipment is subject to the following
two conditions: (1) this device may not cause harmful
interference, and (2) this device must accept any
interference received, including interference that may
cause undesired operation.

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CE



SAFETY: OPEN-DESIGN MANAGEMENT EQUIPMENT
See Reference Manual No.
15 for ODP-0001 for instructions for use

American Auto Matrix Controls

Lei Huang



American Auto Matrix Controls:

Direct Digital Control of Building Systems H. Michael Newman, 1994 It emphasizes throughout the high performance reliability and reduced cost of modern digital sensors control devices microprocessors computer memory and other electronic components

The Internet of Things Olivier Hersent, David Boswarthick, Omar Elloumi, 2011-12-19 An all in one reference to the major Home Area Networking Building Automation and AMI protocols including 802.15.4 over radio or PLC 6LoWPAN RPL ZigBee 1.0 and Smart Energy 2.0 Zwave LON BACNet KNX ModBus mBus C12 and DLMS COSEM and the new ETSI M2M system level standard In depth coverage of Smart grid and EV charging use cases This book describes the Home Area Networking Building Automation and AMI protocols and their evolution towards open protocols based on IP such as 6LoWPAN and ETSI M2M The authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine to machine communication for mission critical applications based on the next generation machine to machine ETSI M2M architecture The authors demonstrate using the example of the smartgrid use case how the next generation utilities by interconnecting and activating our physical environment will be able to deliver more energy notably for electric vehicles with less impact on our natural resources

Key Features Offers a comprehensive overview of major existing M2M and AMI protocols Covers the system aspects of large scale M2M and smart grid applications Focuses on system level architecture interworking and nationwide use cases Explores recent emerging technologies 6LoWPAN ZigBee SE 2.0 and ETSI M2M and for existing technologies covers recent developments related to interworking Relates ZigBee to the issue of smartgrid in the more general context of carrier grade M2M applications Illustrates the benefits of the smartgrid concept based on real examples including business cases This book will be a valuable guide for project managers working on smartgrid M2M telecommunications and utility projects system engineers and developers networking companies and home automation companies It will also be of use to senior academic researchers students and policy makers and regulators

Consulting-specifying Engineer, 2004 [Energy Management Handbook, Fifth Edition](#) Steve Doty, Wayne C. Turner, 2004-09-22 Originally published two decades ago the Energy Management Handbook has become recognized as the definitive stand alone energy manager's desk reference used by thousands of energy management professionals throughout the industry Known as the bible of energy management it has helped more energy managers reach their potential than any other resource Completely revised and updated the fifth edition includes new chapters on building commissioning and green buildings You'll find in depth coverage of every component of effective energy management including boiler and steam system optimization lighting and electrical systems HVAC system performance waste heat recovery cogeneration thermal energy storage energy management control systems energy systems maintenance building envelope industrial insulation indoor air quality energy economic analysis energy procurement decision making energy security and reliability and overall energy management program organization You'll also get the latest facts on utility

deregulation energy project financing and in house vs outsourcing of energy services The energy industry has change radically since the initial publication of this reference over 20 years ago Looking back on the energy arena one thing becomes clear energy is the key element that must be managed to ensure a company s profitability The Energy Management Handbook Fifth Edition is the definitive reference to guide energy managers through the maze of changes the industry has experienced

Direct Digital Control for Building HVAC Systems Michael J. Coffin, 2012-12-06 Since the publication of the first edition in 1992 the HVAC industry has gone through enormous changes As simple digital systems have given way to more complex systems demand for information on how these systems operate how they are best applied and how they communicate with other building control systems has grown rapidly Direct Digital Control for Building Systems Second Edition is thoroughly updated and expanded to include coverage of the architecture of modern digital control systems distributed intelligence networked systems communication protocols the technologies and issues concerning interoperability the latest application strategies and defensive techniques for designing and specifying control systems Numerous illustrations throughout help keep the subject highly accessible and hardware software and systems applications are described in the most universal terms possible This thoroughly revised second edition also contains a full section on BACnet standard and Echelon s LonWorks technology their meaning applications and future implications An up to date appendix is provided Insights on emerging technologies in intelligent control systems and what the future holds for this dynamic field is covered throughout

Building Operating Management ,1994 Energy Management Systems & Direct Digital Control Richard Panke, 2001-09-30 Optimize performance of energy management and building systems at your facility with this state of the art user s guide *Air Conditioning Heating & Refrigeration News* ,1988

Trends in Advanced Intelligent Control, Optimization and Automation Wojciech Mitkowski, Janusz Kacprzyk, Krzysztof Oprzędkiewicz, Paweł Skruch, 2017-06-06 This volume contains the proceedings of the KKA 2017 the 19th Polish Control Conference organized by the Department of Automatics and Biomedical Engineering AGH University of Science and Technology in Krak w Poland on June 18 21 2017 under the auspices of the Committee on Automatic Control and Robotics of the Polish Academy of Sciences and the Commission for Engineering Sciences of the Polish Academy of Arts and Sciences Part 1 deals with general issues of modeling and control notably flow modeling and control sliding mode predictive dual etc control In turn Part 2 focuses on optimization estimation and prediction for control Part 3 is concerned with autonomous vehicles while Part 4 addresses applications Part 5 discusses computer methods in control and Part 6 examines fractional order calculus in the modeling and control of dynamic systems Part 7 focuses on modern robotics Part 8 deals with modeling and identification while Part 9 deals with problems related to security fault detection and diagnostics Part 10 explores intelligent systems in automatic control and Part 11 discusses the use of control tools and techniques in biomedical engineering Lastly Part 12 considers engineering education and teaching with regard to automatic control and robotics

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