

5.7" Quick Mount HMI/Controller: LT4301M Series

TouchPanel Operation



5.7-inch TFT Color LCD
Fast Scan, Database Quick Mount HMI/Controller

LT4301M **5.7-inch**

Super 16-bit color display, 11.5-inch diagonal, 28.5mm depth, IP65 rated display

Powered by
GP-Pro EX

UL LISTED CE RoHS

Features:

- 65,536 color, LED backlit TFT color LCD Display
- Separate Front and Rear Module for quick installation in 22mm hole
- 64-bit RISC CPU for ultra-fast screen refresh and communication
- No grid analog touch panel for improved visibility and precise part placement

- Supports a large selection of Serial or Ethernet protocols (Set up to 4 Ethernet or 3 Ethernet and 1 serial protocol.)
- USB interfaces can be used for project transfer and to connect BCR scanners, printers, and memory devices.
- Programmed with the versatile GP-Pro EX Screen Development Software
- Multiple Mounting Options Available

Specifications

Model		LT4301TM (Type-AxO)	LT4301TM (Type-DxO)
Order Numbers		PF6LMA301TADAC (Source) PF6LMA301TADAK (Sink)	PF6LMA301TADOC (Source) PF6LMA301TADOK (Sink)
Display	Size and Type	5.7" TFT Color LCD	
	Colors	16.7M colors	
	Resolution	320 x 240 pixels (QVGA)	
	Brightness Adjustment	16 levels of adjustment available via touch panel in the Configuration menu	
	Backlight	White LED adjustable on/off control	
	Area	116.2 x 86.4 mm (4.53 x 3.40 in.)	
Memory	Application	16MB FLASH EPROM (Capacity available for user application)	
	Data Backup	128KB e2SRAM	
	Logic Program Area	128KB FLASH EPROM (equivalent to 16,384 steps) (expandable to 80,000 steps by using 1MB of user application memory)	
Interfaces	Serial (COM)	x1 RS232C / x1 RS485 (RJ45)	
	Ethernet	x1 10/100Base-T	
	USB	x1 (USB 2.0 Type-A), x1 (USB 2.0 Mini-B)	
	CANOpen	CANopen master (Sub-ID) (supported 2014)	
Built-in DIO (Input)		12 points (configurable 2 x High Speed counter/Pulse catch or 1 Up/Down High Speed Counter)	20 points (configurable 2 x High Speed counter/Pulse catch or 1 Up/Down High Speed Counter)
Built-in DIO (Output)		8 points (configurable 2 x PNP/Pulse)	12 points (configurable 2 x PNP/Pulse)
Built-in AO (Input)		4 points (Voltage/Current x2 + Temperature input x2 included)	0 points
Built-in AO (Output)		2 points (Voltage/Current x2)	0 points
Clock		Battery backed clock	

General Specifications

Model		PF6LMA301TADAC (Source) PF6LMA301TADAK (Sink)	PF6LMA301TADOC (Source) PF6LMA301TADOK (Sink)
Electrical	Input Voltage Limits	24Vdc	
	Rated Voltage	20.4Vdc to 28.2Vdc	
	Power Consumption	<div> <div> 8.13W </div> <div> 5.10W </div> </div>	
Environmental	Ambient Operating Temp.	Horizontal Installation	0...55 °C (32...132 °F)
		Vertical Installation	0...40 °C (32...104 °F)
	Storage Temperature	-25...60 °C (-4...140 °F)	
	Relative Humidity	5...95% w/o condensation (non condensing, wet bulb temperature 30 °C (102.2 °F) or less)	
	Altitude Operation	0...2,000 m (0...6,560 ft)	
	Vibration & Shock Resistance	Mounted on a DIN rail	0.5 mm (0.138 in.) base amplitude from 5...8.0 Hz 0.8 ms ² (1 g) base acceleration from 8.0...150 Hz
		Mounted on a panel	0.5 mm (0.138 in.) base amplitude from 5...8.0 Hz 0.8 ms ² (1 g) base acceleration from 8.0...150 Hz
Structural	Rating	Front Module: IP65, NEMA Type 4x, rear module IP20	
	Certification	CE, UL Listed, PHS, QCS7	
	Cooling Method	Natural Air Circulation	
	Weight	LT4301TM (Modular Type Analog): 754 g (27.05 oz)	LT4301TM (Modular Type DIO): 748 g (26.41 oz)
	Warranty	Two year standard	

Hmi User Manual

Alois Zoitl, Thomas Strasser



Hmi User Manual:

Field Manuals United States. War Department,1948 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

Countering Cyber Sabotage Andrew A. Bochman,Sarah Freeman,2021-01-20 Countering Cyber Sabotage Introducing Consequence Driven Cyber Informed Engineering CCE introduces a new methodology to help critical infrastructure owners operators and their security practitioners make demonstrable improvements in securing their most important functions and processes Current best practice approaches to cyber defense struggle to stop targeted attackers from creating potentially catastrophic results From a national security perspective it is not just the damage to the military the economy or essential critical infrastructure companies that is a concern It is the cumulative downstream effects from potential regional blackouts

military mission kills transportation stoppages water delivery or treatment issues and so on CCE is a validation that engineering first principles can be applied to the most important cybersecurity challenges and in so doing protect organizations in ways current approaches do not The most pressing threat is cyber enabled sabotage and CCE begins with the assumption that well resourced adaptive adversaries are already in and have been for some time undetected and perhaps undetectable Chapter 1 recaps the current and near future states of digital technologies in critical infrastructure and the implications of our near total dependence on them Chapters 2 and 3 describe the origins of the methodology and set the stage for the more in depth examination that follows Chapter 4 describes how to prepare for an engagement and chapters 5 8 address each of the four phases The CCE phase chapters take the reader on a more granular walkthrough of the methodology with examples from the field phase objectives and the steps to take in each phase Concluding chapter 9 covers training options and looks towards a future where these concepts are scaled more broadly

Handbook of Automotive Human Factors Motoyuki Akamatsu, 2019-06-14 Thanks to advances in computer technology in the last twenty years navigation system cabin environment control ACC advanced driver assistance system ADAS and automated driving have become a part of the automobile experience Improvement in technology enables us to design these with greater flexibility and provide greater value to the driver human centered design To achieve this research is required by laboratories automobile and auto parts manufacturers Although there has been a lot of effort in human factors research and development starting from basic research to product development the knowledge and experience has not been integrated optimally The aim of this book is to collect and review the information for researchers designers and developers to learn and apply them for further research and development of human centered design of future automotive technologies Automotive human factors include psychological physiological mathematical engineering and even sociological aspects This book offers valuable insights to applying the right approach in the right place

Instrumentation and Control Systems for Nuclear Power Plants Mauro Cappelli, 2023-03-21 Instrumentation and Control Systems for Nuclear Power Plants provides the latest innovative research on the design of effective modern I C systems for both existing and newly commissioned plants along with information on system implementation Dr Cappelli and his team of expert contributors cover fundamentals explore the most advanced research in control systems technology and tackle topics such as the human machine interface control room redesign and control modeling The inclusion of codes and standards inspection procedures and regulatory issues ensure that the reader can confidently design their own I C systems and integrate them into existing nuclear sites and projects Covers various viewpoints including theory modeling design and applications of I C systems Includes codes and standards inspection procedures and regulatory issues Combines engineering and physics aspects in one thorough resource presenting human factors modeling and HMI together for the first time Instrumentation and Control Systems for Nuclear Power Plants highlights the key role nuclear energy plays in the transition to a lower carbon energy mix

Advanced Information Systems Engineering

Pericles Loucopoulos,1992-04-29 As humanity approaches the 3rd millennium the sustainability of our present way of life becomes more and more questionable New paradigms for the long term coevolution of nature and civilization are urgently needed in order to avoid intolerable and irreversible modifications of our planetary environment Earth System Analysis is a new scientific enterprise that tries to perceive the earth as a whole a unique system which is to be analyzed with methods ranging from nonlinear dynamics to macroeconomic modelling This book resulting from an international symposium organized by the Potsdam Institute has 2 aims first to integrate contributions from leading researchers and scholars from around the world to provide a multifaceted perspective of what Earth System Analysis is all about and second to outline the scope of the scientific challenge and elaborate the general formalism for a well defined transdisciplinary discourse on this most fascinating issue **Aviation Structural Mechanic H 3 & 2** United States. Bureau of Naval Personnel,1961 **The**

Intelligent Safety of Automobile Jianqiang Wang,Bingbing Nie,Hong Wang,2023-11-27 The book expounds the current research and development trend of intelligent safety technology of automobile and analyzes and excavates the new safety technology to the automobile It introduces the basic theory core method key technology main system test evaluation and innovation practice of intelligent safety of automobile for readers providing a certain theoretical and practical basis for the safety development of the automobile This book is elaborated from the perspective of the driver vehicle road system The traffic accidents are divided into three stages for discussion before during and after the collision This book constructs a new systematic structure for Safety theory and technical system of several key links including system safety operation safety intelligent protection and safety evaluation It will be a useful reference for researchers and practitioners in the field of automobile engineering and auto pilot **PLC Controls with Structured Text (ST)** Tom Mejer Antonsen,2019-03-14 This book gives an introduction to Structured Text ST used in Programmable Logic Control PLC The book can be used for all types of PLC brands including Siemens Structured Control Language SCL and Programmable Automation Controllers PAC Contents Background advantage and challenge when ST programming Syntax and fundamental ST programming Widespread guide to reasonable naming of variables CTU TOF TON CASE STRUCT ENUM ARRAY STRING Guide to split up into program modules and functions More than 90 PLC code examples in black white FIFO RND 3D ARRAY and digital filter Examples From LADDER to ST programming Guide to solve programming exercises Many clarifying explanations to the PLC code and focus on the fact that the reader should learn how to write a stable robust readable structured and clear code are also included in the book Furthermore the focus is that the reader will be able to write a PLC code which does not require a specific PLC type and PLC code which can be reused The basis of the book is a material which is currently compiled with feedback from lecturers and students attending the AP Education in Automation Engineering at the local Dania Academy Erhvervsakademi Dania Randers Denmark The material is thus currently updated so that it answers all the questions which the students typically ask through out the period of studying The author is Bachelor of Science in Electrical Engineering B Sc

E E and has 25 years of experience within specification development programming and supplying complex control solutions and supervision systems The author is Assistant Professor and teaching PLC control systems at higher educations LinkedIn <https://www.linkedin.com/in/tommejerantonsen>

Set Lighting Technician's Handbook Harry Box, 2013-05-02 Comprehensive Detailed Practical Set Lighting Technician's Handbook Fourth Edition is a friendly hands on manual covering the day to day practices equipment and tricks of the trade essential to anyone doing motion picture lighting including the lamp operator rigging crew gaffer best boy or director of photography This handbook offers a wealth of practical technical information useful techniques as well as aesthetic discussions The Set Lighting Technician's Handbook focuses on what is important when working on set trouble shooting teamwork set protocol and safety It describes tricks and techniques for operating a vast array of lighting equipment including LEDs xenons camera synchronous strobes black lights underwater units lighting effects units and many others Since its first edition this handy on set reference continues to be widely adopted as a training and reference manual by union training programs as well as top university film production programs New to the fourth edition Detailed information on LED technology and gear Harmonized with union safety and training procedures All the latest and greatest DMX gadgets including remote control systems Many new and useful lights and how to use them and troubleshoot them New additions to the arsenal of electrical distribution equipment that make our sets safer and easier to power More rigging tricks and techniques the same friendly easy to read style that has made this book so popular

ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1976-05 **ERDA Research Abstracts** United States. Energy Research and Development Administration, 1976 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center, 1976 **Design, User Experience, and Usability: User Experience Design for Everyday Life Applications and Services** Aaron Marcus, 2014-06-11 The four volume set LNCS 8517 8518 8519 and 8520 constitutes the proceedings of the Third International Conference on Design User Experience and Usability DUXU 2014 held as part of the 16th International Conference on Human Computer Interaction HCII 2014 held in Heraklion Crete Greece in June 2014 jointly with 13 other thematically similar conferences The total of 1476 papers and 220 posters presented at the HCII 2014 conferences were carefully reviewed and selected from 4766 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The total of 256 contributions included in the DUXU proceedings were carefully reviewed and selected for inclusion in this four volume set The 69 papers included in this volume are organized in topical sections on design for health design for reading and learning design for mobility transport and safety design for rural low literacy and developing communities design for environment and sustainability design for human computer symbiosis

Integrated Gasification Combined Cycle (IGCC) Technologies Ting Wang, Gary J. Stiegel, 2016-11-26 Integrated Gasification Combined Cycle IGCC Technologies discusses this innovative power generation technology that combines modern coal gasification technology with both gas turbine and steam turbine power generation an important emerging technology which has the potential to significantly improve the efficiencies and emissions of coal power plants The advantages of this technology over conventional pulverized coal power plants include fuel flexibility greater efficiencies and very low pollutant emissions The book reviews the current status and future developments of key technologies involved in IGCC plants and how they can be integrated to maximize efficiency and reduce the cost of electricity generation in a carbon constrained world The first part of this book introduces the principles of IGCC systems and the fuel types for use in IGCC systems The second part covers syngas production within IGCC systems The third part looks at syngas cleaning the separation of CO₂ and hydrogen enrichment with final sections describing the gas turbine combined cycle and presenting several case studies of existing IGCC plants Provides an in depth multi contributor overview of integrated gasification combined cycle technologies Reviews the current status and future developments of key technologies involved in IGCC plants Provides several case studies of existing IGCC plants around the world

Computer Security Sokratis K. Katsikas, Frédéric Cuppens, Nora Cuppens, Costas Lambrinoudakis, Christos Kalloniatis, John Mylopoulos, Annie Antón, Stefanos Gritzalis, 2018-01-03 This book constitutes the thoroughly refereed post conference proceedings of the Third International Workshop on the Security of Industrial Control Systems and of Cyber Physical Systems CyberICPS 2017 and the First International Workshop on Security and Privacy Requirements Engineering SECPRE 2017 held in Oslo Norway in September 2017 in conjunction with the 22nd European Symposium on Research in Computer Security ESORICS 2017 The CyberICPS Workshop received 32 submissions from which 10 full and 2 short papers were selected for presentation They cover topics related to threats vulnerabilities and risks that cyber physical systems and industrial control systems face cyber attacks that may be launched against such systems and ways of detecting and responding to such attacks From the SECPRE Workshop 5 full papers out of 14 submissions are included The selected papers deal with aspects of security and privacy requirements assurance and evaluation and security requirements elicitation and modelling

Applied Technologies Miguel Botto-Tobar, Marcelo Zambrano Vizuete, Sergio Montes León, Pablo Torres-Carrión, Benjamin Durakovic, 2023-01-28 This three volume set CCIS 1755 1757 constitutes the refereed proceedings of the 4th International Conference on Applied Technologies ICAT 2022 held in Quito Ecuador in November 2022 The 112 full papers included in this book were carefully reviewed and selected from 415 submissions They were organized in topical sections as follows human computing and information science IT financial and business management

Set Lighting Technician's Handbook Harry C. Box, 2020-04-19 A friendly hands on training manual and reference for lighting technicians in motion picture and television production this handbook is the most comprehensive guide to set lighting available It provides a unique combination of

practical detail with a big picture understanding of lighting technology safety and professionalism essential to anyone doing motion picture lighting The fifth edition delves into every aspect of lighting and features vastly expanded sections on controlling LED lights color science lighting control systems wireless systems Ethernet based control systems battery power and modern set protocol for productions small and large With a generous number of original images the book illustrates the use of soft light the effect of lighting angles and how the gaffer and DP build an effective lighting plan around the blocking of the actors This encyclopedic volume of technical knowhow is tempered with years of practical experience and a much needed sense of humor This is the ideal text for professional lighting technicians across film and television including lighting directors gaffers DOPs and rigging crews as well as film and television production students studying lighting camera techniques film production and cinematography It includes a revamped companion website with supplementary resources forms checklists and images

Instrument Engineers' Handbook, Volume Two Bela G. Liptak, 2018-10-08 The latest update to Bela Liptak's acclaimed bible of instrument engineering is now available Retaining the format that made the previous editions bestsellers in their own right the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information The authors are practicing engineers not theoretical people from academia and their from the trenches advice has been repeatedly tested in real life applications Expanded coverage includes descriptions of overseas manufacturer's products and concepts model based optimization in control theory new major inventions and innovations in control valves and a full chapter devoted to safety With more than 2000 graphs figures and tables this all inclusive encyclopedic volume replaces an entire library with one authoritative reference The fourth edition brings the content of the previous editions completely up to date incorporates the developments of the last decade and broadens the horizons of the work from an American to a global perspective B la G Lipt k speaks on Post Oil Energy Technology on the AT T Tech Channel

Distributed Control Applications Alois Zoitl, Thomas Strasser, 2017-12-19 Distributed Control Applications Guidelines Design Patterns and Application Examples with the IEC 61499 discusses the IEC 61499 reference architecture for distributed and reconfigurable control and its adoption by industry The book provides design patterns application guidelines and rules for designing distributed control applications based on the IEC 61499 reference model Moreover examples from various industrial domains and laboratory environments are introduced and explored

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