



# Industrial Data Communications, Fifth Edition

By Lawrence (Larry) M. Thompson, Tim Shaw

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**Industrial Data Communications, Fifth Edition** By Lawrence (Larry) M. Thompson, Tim Shaw

As automation becomes more thoroughly networked with advances in speed, connectivity, and security; this fifth edition of an ISA best seller is still designed to give technical professionals with little or no background in data communications the knowledge they need to succeed. Additionally, even those with nominal knowledge will find information to enhance troubleshooting and to understand both legacy systems and the more advanced systems now being installed throughout automated facilities. As before, the text emphasizes the practical aspects of commonly used systems rather than design criteria. It contains a complete description of the relevant terminology, standards, and protocols including EIA/TIA-232/485, IEEE 802.3, IEEE 802.11, and IEEE 802.15. New material in this edition includes information on updated Ethernet and router technologies; a more detailed description of VPNs; and expanded information on cybersecurity (including ANSI/ISA/IEC 62443). A complete glossary and index allows the book to be used as a handy reference. SCADA, DCS, and fieldbus systems are all explained, as well as operating system considerations from a communications perspective. This is a book for newcomers to automation data communications, as well as a reference for those who are currently working in the field.

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### Editorial Review

#### About the Author

Lawrence (Larry) M. Thompson is the owner and general manager of ESdat Co., a consulting firm specializing in industrial data communications. Throughout his distinguished career, Thompson has served as a technician, technical trainer, and course developer in electronics, measurement/control, and computer networking. A 20-year veteran of the US Air Force, Thompson specialized in the maintenance of electronic encryption equipment during his service. His post-military industrial experience includes positions as technician, test engineer, and test engineering supervisor for numerous companies.

Thompson holds a bachelor's degree in applied arts and science from Tarleton State University and worked on a master's degree in computer science at the University of Texas. He retired as Department Chair for E-Commerce Technology at Texas State Technical College, to run his own consulting business full time. He has served as an adjunct instructor for ISA for more than 23 years. He has written several books, including ISA's Industrial Data Communications and Basic Electrics/Electronics for Control, and is a Certified Automation Professional® (CAP®).

William T. (Tim) Shaw, Ph.D., CISSP, C|EH, CPT, is the Senior Security Architect for Industrial Automation Systems at MAR, Incorporated, a privately held professional services firm that provides technical and management services to government agencies and commercial customers. Shaw possesses more than 40 years of experience in industrial automation, including process/plant automation, electrical substation automation, factory automation electrical/water/pipeline SCADA and equipment condition monitoring. He has held a diverse range of positions through his career, including technical contributor, technical manager, general manager, CTO and division President/CEO. Shaw is an expert in control system cybersecurity, particularly on NERC CIP standards, ISA SP.99 standards, NRC RG 5.71 and the NIST 800-53 standards, and is highly knowledgeable in the areas of US nuclear power plant cybersecurity and physical security. Shaw has written a wide variety of books, magazine articles and columns, and technical papers. He wrote two books--Computer Control of Batch Processes and Cybersecurity for SCADA Systems--and contributed to two other books. Shaw serves as a contributing editor to Electric Energy T&D magazine.

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