

Thank You

Thanks for purchasing an MPI series magnetostrictive level sensor from us! We appreciate your business and your trust. Please take a moment to familiarize yourself with the product and this manual before installation. If you have any questions, at any time, don't hesitate to call us at 888-525-7300.

NOTE: Scan the QR code to the right to see the full user manual on your tablet or smartphone. Or visit www.apgsensors.com/support to find it on our website.



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1 Description

The MPI series magnetostrictive level sensor provides highly accurate and repeatable level readings in a wide variety of liquid level measurement applications. It is certified for installation in Class I, Division 1, and Class I, Zone-D hazardous areas in the US and Canada by CSA, and ATEX and IECEx for Europe and the rest of the world.

2 How To Read Your Label

Each label comes with a full model number, a part number, and a serial number. The model number for the MPI will look something like this:

SAMPLE: MPI-RS-ZV-P35B-120-40-A

The model number correlates with all the configurable options and tells you exactly what you have. Compare the model number to the options on the datasheet to identify your exact configuration. You can also call us with the model, part, or the serial number and we can help you.

You'll also find all hazardous certification information on the label.

3 Warranty

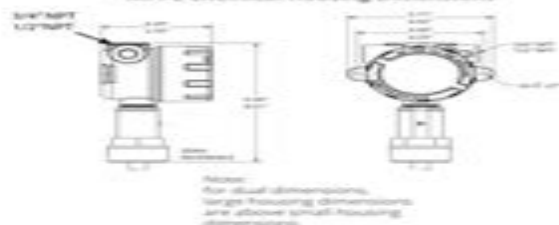
This product is covered by APG's warranty to be free from defects in material and workmanship under normal use and service of the product for 24 months. For a full explanation of our Warranty, please visit www.apgsensors.com/support. Contact Technical Support to receive a Return Material Authorization before shipping your product back.

Scan the QR code below to read the full explanation of our Warranty on your tablet or smartphone.

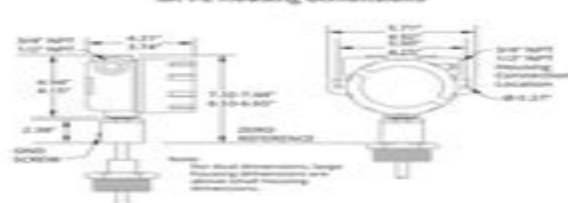


4 Dimensions

MPI-E Chemical Housing Dimensions



MPI-E Housing Dimensions



MPI Series Magnetostrictive Level Sensors Installation Guide

For MPI-E, MPI-E Chemical, and MPI-R Intrinsically Safe



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5 Installation Guidelines & Instructions

The MPI should be installed in an area—indoors or outdoors—which meets the following conditions:

- Ambient temperature between -40°F and 185°F (-40°C to 85°C)
- Relative humidity up to 100%
- Altitude up to 2000 meters (6560 feet)
- IEC 60665-5 Conductive Pollution Degree 1 or 2
- IEC 60503-1 Measurement Category II
- No chemical corrosive to stainless steel (such as NH_3 , SO_2 , Cl_2 , etc.) (not applicable to plastic-type stem options)
- Ample space for maintenance and inspection

Additional care must be taken to ensure:

- The probe is kept away from strong magnetic fields, such as those produced by motors, transformers, solenoid valves, etc.
- The medium is free from metallic substances and other foreign matter.
- The probe is not exposed to excessive vibration.
- The float(s) fit through the mounting hole. If the float(s) does/do not fit, it/they must be mounted on the stem from inside the vessel being monitored.
- The float(s) are oriented properly on the stem (See Figure 5-1 below). MPI-E floats will be installed by the factory. MPI-R floats are typically installed by customer.

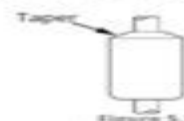


Figure 5-1

IMPORTANT: Floats must be oriented properly on the stem, or sensor readings will be inaccurate and unreliable. Untapered floats will have a sticker or etching indicating the top of the float. Remove sticker prior to use.

ATEX Stated Conditions of Use:

- Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.
- The enclosure is manufactured from Aluminum. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation.

Installation Instructions:

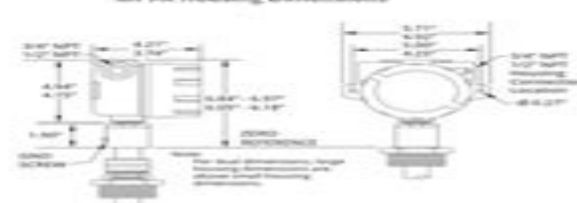
- If your sensor's stem and floats fit through the mounting hole, carefully lower the assembly into the vessel, then secure the sensor's mounting option to the vessel.
- If the floats do not fit, mount them on the stem from inside the vessel being monitored. Then secure the sensor to the vessel.
- For sensors with float stops, refer to the assembly drawing included with the sensor for float stop installation locations.

Electrical Installation Instructions:

- Remove the housing cover of your MPI.
- Feed system wires into MPI through conduit openings. Fittings must be UL/CSA Listed for CSA installation and IHS-Rated or better.
- Connect wires to MPI terminals. Use crimped terminals on wires, if possible.
- Replace housing cover.

See Sensor and System Wiring Diagrams (section 6) for Modbus wiring examples.

MPI-R Housing Dimensions



Mpi Install Manual

**Vadim Backman, Adam Wax, Hao F.
Zhang**



Mpi Install Manual:

Using MPI William Gropp, Ewing Lusk, Anthony Skjellum, 1999 The authors introduce the core function of the Message Printing Interface MPI This edition adds material on the C and Fortran 90 binding for MPI **IBM Platform Computing Solutions** Dino Quintero, Scott Denham, Rodrigo Garcia da Silva, Alberto Ortiz, Aline Guedes Pinto, Atsumori Sasaki, Roger Tucker, Joanna Wong, Elsie Ramos, IBM Redbooks, 2012-12-07 This IBM Platform Computing Solutions Redbooks publication is the first book to describe each of the available offerings that are part of the IBM portfolio of Cloud analytics and High Performance Computing HPC solutions for our clients This IBM Redbooks publication delivers descriptions of the available offerings from IBM Platform Computing that address challenges for our clients in each industry We include a few implementation and testing scenarios with selected solutions This publication helps strengthen the position of IBM Platform Computing solutions with a well defined and documented deployment model within an IBM System x environment This deployment model offers clients a planned foundation for dynamic cloud infrastructure provisioning large scale parallel HPC application development cluster management and grid applications This IBM publication is targeted to IT specialists IT architects support personnel and clients This book is intended for anyone who wants information about how IBM Platform Computing solutions use IBM to provide a wide array of client solutions **IBM Platform Computing Solutions for High Performance and Technical Computing Workloads** Dino Quintero, Daniel de Souza Casali, Marcelo Correia Lima, Istvan Gabor Szabo, Maciej Olejniczak, Tiago Rodrigues de Mello, Nilton Carlos dos Santos, IBM Redbooks, 2015-06-19 This IBM Redbooks publication is a refresh of IBM Technical Computing Clouds SG24 8144 Enhance Inbound and Outbound Marketing with a Trusted Single View of the Customer SG24 8173 and IBM Platform Computing Integration Solutions SG24 8081 with a focus on High Performance and Technical Computing on IBM Power Systems™ This book describes synergies across the IBM product portfolio by using case scenarios and showing solutions such as IBM Spectrum™ Scale formerly GPFSTM This book also reflects and documents the IBM Platform Computing Cloud Services as part of IBM Platform Symphony for analytics workloads and IBM Platform LSF with new features such as a Hadoop connector a MapReduce accelerator and dynamic cluster for job scheduling Both products are used to help customers schedule and analyze large amounts of data for business productivity and competitive advantages This book is targeted at technical professionals consultants technical support staff IT Architects and IT Specialists that are responsible for delivering cost effective cloud services and big data solutions on IBM Power Systems to uncover insights among client data so that they can take actions to optimize business results product development and scientific discoveries **Manual of Meat Inspection Procedures of the United States Department of Agriculture** United States. Agricultural Research Service. Meat Inspection Division, 1968 **Manual of Meat Inspection Procedures** , 1968 **Beowulf Cluster Computing with Linux** Thomas Lawrence Sterling, 2002 Enabling technologies An overview of cluster computing Thomas Sterling Node Hardware Thomas Sterling Linux Peter H

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High Performance Linux Clusters with OSCAR, Rocks, OpenMosix, and MPI Joseph D Sloan, 2005 The author teaches at Wofford College The Algorithm Design Manual: Text Steven S. Skiena, 1998 This volume helps take some of the mystery out of identifying and dealing with key algorithms Drawing heavily on the author's own real world experiences the book stresses design and analysis Coverage is divided into two parts the first being a general guide to techniques for the design and analysis of computer algorithms The second is a reference section which includes a catalog of the 75 most important algorithmic problems By browsing this catalog readers can quickly identify what the problem they have encountered is called what is known about it and how they should proceed if they need to solve it This book is ideal for the working professional who uses algorithms on a daily basis and has need for a handy reference This work can also readily be used in an upper division course or as a student reference guide THE ALGORITHM DESIGN MANUAL comes with a CD ROM that contains a complete hypertext version of the full printed book the source code and URLs for all cited implementations over 30 hours of audio lectures on the design and analysis of algorithms are provided all keyed to on line lecture notes Advances in Grid Computing - EGC 2005 Peter Sloot, 2005-07-04 This book constitutes the refereed proceedings of the European Grid Conference EGC 2005 held in Amsterdam The Netherlands in February 2005 Focusing on all aspects of Grid computing and bringing together participants from research and industry EGC 2005 was a follow up of the AcrossGrids Conferences held in Santiago de Compostela Spain 2003 and in Nicosia Cyprus 2004 The 121 revised papers presented including the contribution of three invited speakers were carefully reviewed and selected from over 180 submissions for inclusion in the book and address the following topics applications architecture and infrastructure resource brokers and management grid services and monitoring performance security workflow data and information management and scheduling fault tolerance and mapping

Meat and Poultry Inspection Manual United States. Animal and Plant Health Inspection Service, 1985

A Laboratory Manual in Biophotonics Vadim Backman, Adam Wax, Hao F. Zhang, 2018-05-15 Biophotonics is a burgeoning field that has afforded researchers and medical practitioners alike an invaluable tool for implementing optical microscopy Recent advances in research have enabled scientists to measure and visualize the structural composition of cells and tissue while generating applications that aid in the detection of diseases such as cancer Alzheimer's and atherosclerosis Rather than divulge a perfunctory glance into the field of biophotonics this textbook aims to fully immerse senior undergraduates graduates and

research professionals in the fundamental knowledge necessary for acquiring a more advanced awareness of concepts and pushing the field beyond its current boundaries The authors furnish readers with a pragmatic quantitative and systematic view of biophotonics engaging such topics as light tissue interaction the use of optical instrumentation and formulating new methods for performing analysis Designed for use in classroom lectures seminars or professional laboratories the inclusion and incorporation of this textbook can greatly benefit readers as it serves as a comprehensive introduction to current optical techniques used in biomedical applications Caters to the needs of graduate and undergraduate students as well as R D professionals engaged in biophotonics research Guides readers in the field of biophotonics beginning with basic concepts before proceeding to more advanced topics and applications Serves as a primary text for attaining an in depth systematic view of principles and applications related to biophotonics Presents a quantitative overview of the fundamentals of biophotonic technologies Equips readers to apply fundamentals to practical aspects of biophotonics Advanced ICTs for Disaster Management and Threat Detection: Collaborative and Distributed Frameworks Asimakopoulou, Eleana, Bessis, Nik, 2010-06-30 This book offers state of the art information and references for work undertaken in the challenging area of utilizing cutting edge distributed and collaborative ICT to advance disaster management as a discipline to cope with current and future unforeseen threats Provided by publisher **jeep cherokee and comanche automotive repair manual** ,2000

Recent Advances in Parallel Virtual Machine and Message Passing Interface Beniamino Di Martino, Dieter Kranzlmüller, Jack Dongarra, 2005-10-03 This volume comprises 61 selected contributions presented at the 12th European PVM MPI Users Group Meeting which was held in Sorrento Italy September 18 21 2005 *Lectures on Phase Field* Ingo Steinbach, Hesham Salama, 2023-04-23 This open access textbook fills a gap in that it introduces readers to the theory and applications of the Phase Field technique Phase Field over the years has emerged as a standard tool for materials research just as the Finite Element technique has in structure mechanics Whereas the few existing textbooks on this topic are intended for advanced readers this one is made accessible to the widest possible audience through an engaging lecture format The content grows out of a course the authors teach for graduate students at Ruhr University Bochum Even readers who may at first have no clue at all what a Phase Field is and for what it is used are invited on a journey from general physics of thermodynamics and wave mechanics through applications in all fields of materials science up to the central questions of physical being On this journey all the necessary techniques are detailed mostly formulated in a mathematical language easily understood by engineers and natural scientists Cloud Computing and Services Science Donald Ferguson, Víctor Méndez Muñoz, Claus Pahl, Markus Helfert, 2020-06-03 This book constitutes extended revised and selected papers from the 9th International Conference on Cloud Computing and Services Science CLOSER 2019 held in Heraklion Greece in May 2019 The 11 papers presented in this volume were carefully reviewed and selected from a total of 102 submissions CLOSER 2019 focuses on the emerging area of Cloud Computing inspired by some latest advances that concern the infrastructure

operations and available services through the global network

Mastering C++ Multithreading Maya Posch, 2017-07-28
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High Performance Scientific and Engineering Computing Laurence Tianruo Yang, Yi Pan, 2013-04-17 High Performance Scientific And Engineering Computing Hardware Software Support contains selected chapters on hardware software support for high performance scientific and engineering computing from prestigious workshops in the fields such as PACT SHPSEC IPDPS PDSECA and ICPP HPSECA This edited volume is basically divided into six main sections which include invited material from prominent researchers around the world We believe all of these contributed chapters and topics not only provide novel ideas new results and state of the art techniques in this field but also stimulate the future research activities in the area of high performance computing for science and engineering applications High Performance Scientific And Engineering Computing

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V3.1 User's Guide ,1999 25th Euromicro Conference: Workshop on Music Technology and Audio Processing. Workshop on Dependable Computing Systems. Workshop on Software Process and Product Improvement. Workshop on Multimedia and Telecommunications. Special session on network computing ,1999

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