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### Book Descriptions:

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## Book Descriptions:

# Dresser Roots Meter Manual

Considered a standard for both commercial and industrial applications, the Roots meters are suitable for handling most types of clean, dry, common gases at either constant or varying flow rates. Meters of standard construction are not directly suitable for handling acetylene, biogas or sewage gas but specially constructed meters are available for order to meet the challenges of your specific application. Dresser Series B3 meters may be used for pressures ranging from a few ounces to the full Maximum Allowable Operating Pressure MAOP. Displaced volume measurement is completely independent of the gas specific gravity, temperature, and pressure. Every meter is static pressure tested at the factory at twice its MAOP and leak tested at 125 percent of MAOP in accordance with ASME Boiler Pressure Vessel Codes. Other pressure ratings are available to order. Prover Maintenance Click on Prov Page 42 and 43 All Provers except 80MT to configure Page 44 and 45 3. Check the Master Meter different Page 46 and 47 11. Problem Identification and Reso Page 48 and 49 3. "WARNING" This message appear Page 50 and 51 Appendix A. Measurement Uncertainty Page 52 and 53 4. After the Compensated Volume odo Page 54 and 55 Table 1 Temperature Cycle Testing Page 56 and 57 2 Year Warranty Dresser Roots Meters show all Thank you, for helping us keep this platform clean. The editors will have a look at it as soon as possible. Discover everything Scribd has to offer, including books and audiobooks from major publishers. Start Free Trial Cancel anytime. Report this Document Download Now Save Save MP 3M175 MANUAL ROOT METER.pdf For Later 100% 1 100% found this document useful 1 vote 485 views 28 pages MP 3M175 MANUAL ROOT METER.pdf Uploaded by Jose Miguel Carrasco Hottman Description Full description Save Save MP 3M175 MANUAL ROOT METER. <http://anhbanglaw.com/userfiles/coway-ap-1512hh-manual.xml>

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pdf For Later 100% 100% found this document useful, Mark this document as useful 0% 0% found this document not useful, Mark this document as not useful Embed Share Print Download Now Jump to Page You are on page 1 of 28 Search inside document Browse Books Site Directory Site Language English Change Language English Change Language. Over this time improvements have been made which keeps the G Series of. Over this time improvements have been made which keeps the G Series of Rotary Gas Meters, manufactured by Dresser, as one of the top models to use in a wide variety of Gas installations. The measuring of Gas by using two impellers rotating in accordance with each other allows for very accurate readings. Each rotation of the impellers is relative to a set volume of Gas that has flowed through the Meter. Under this design, the Meter can read at times of low flow and also when the duty is fluctuating up and down. All of the G Series Gas Meters are supplied as standard with a Low Frequency Pulse Output and a Top Hat Filter to suit. The Pulse Transmitter installs into the side of the mechanical index display in order to connect the Meter for Automatic Meter Reading. The Top Hat Filter is to be installed on the inlet of the Gas Meter to prevent harmful particles and foreign matter from entering the Meter internals and cause issues with the impellers. Sizes of the G Series start at 50mm and are available up to 200mm, all with a flanged PN16

Connection. Installation is possible in both horizontal and vertical runs of pipework. For the largest sizes of G650 and G1000, the flow direction must be specified e.g. left to right, top to bottom etc.. Accuracy, dependability, and low maintenance are key factors in custody transfer measurement applications. The timeproven Roots meter is the preferred gas meter in the distribution, transmission and production segments of the natural gas industry for accurate measurement of gas from the well to the burner.<http://l-max.ru/userfiles/coway-ba13-manual.xml>

When selecting a meter size for your application, use the minimum operating pressure and maximum instantaneous flow rate. Our meters are widely recognized for their highly accurate measurement capabilities at both the low and high end of their rated capacity. They are ideal for applications throughout the meters operating range, from a few ounces to full maximum allowable operating pressure. If application requirements change, this unique, costeffective feature allows a quick and easy meter exchange without the need to repipe the meter set. Other key features include. If application requirements change, this unique, costeffective feature allows a quick and easy meter exchange without the need to repipe the meter set. A kit consists of forged steel flanges, zinc plated bolts, gasket strainer and neoprene gasket. Utilizing a 20 or 80 mesh screen and available from 2" to 8", the use of a gasket strainer comes highly recommended for clean natural gas service. Accuracy, dependability, and low maintenance are of key importance in. Advancements to the timetested and accepted Dresser Meter provide accurate. The Dresser D800 and D1000 meters offer improved natural gas measurement accuracy. Sized for applications typically reserved for large diaphragm meters, the compact design. The Dresser. The ES3 product line from Dresser Natural Gas Solutions provides the accuracy and reliability you. The cartmounted prover gives you the increased capability to prove rotary. Featuring a simplified. Endpoint Part Numbers 100G Endpoint ERG5000001, ERG5000002, ERG5000003, ERG5000004, ERG5000005, ERG5000006, ERG5000007, ERG5000008Copyright. Applicable Patents. U.S. Patent Numbers 4,614,945; 4,753,169; 4,768,903; 4,799,059; 4,867,700. Canadian Patent Numbers 1,254,949; 1,267,936; 1,282,118. Compliance Statement. This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following two conditions.

This device must be permanently mounted such that it retains a distance of 20 centimeters 7.9 inches from all persons in order to comply with FCC RF exposure levels. This equipment has been tested and found to comply with the limits, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmfulOperation is subject to the following conditions. This equipment complies with policies RSS210 and RSSGEN of the Industry Canada rules. Operation is subject to the following two conditions 1 this device may not causeTrademark Notice. Itron and EndpointLink are registered trademarks of Itron, Inc. All other product names and logos in this documentation are used for identification purposes only and may be trademarks or registered trademarks of their respective companies. Suggestions. If you have questions or comments about the software or hardware product, contact Itron Technical Support. Contact. Mail Itron, Inc. Attention Customer Care, 2111 N Molter Road, Liberty Lake, WA 99019. Internet [www.itron.com](http://www.itron.com). Phone 1 800 635 8725. WARNING! Follow these procedures to avoid injury to yourself or othersAny other batteryWARNING! Only authorized Itron personnel should attempt repairs on Itron equipment. Attempts to do so by others might void any maintenance contract with your company. Unauthorized service personnel might also be subject to shock hazard on some Itron equipmentWARNING! To prevent ignition of flammable or combustible atmospheres, disconnect powerWARNING! Substitution of components may impair intrinsic safety.The Federal Aviation Administration prohibits operating transmitters and receivers on all commercial aircraft. When powered, the 100G Datalogging Endpoint is considered an operatingAll product returns must be shipped by ground transportation. Modifications and Repairs. To ensure system performance, this device and antenna shall not be changed or modified without the expressed approval of Itron.

Any unauthorized modification will void the warranty. In the event of malfunction, all repairs should be performed by Itron. It is the responsibility of users requiring service to report the need for service to Itron. The following documentation conventions are used. CAUTION! This type of note warns the user that failure to heed the advice could result in personal injury or death. WARNING! This type of note is used to warn of potential physical harm. It is critical that you pay strict attention to. WARNING notes, read the information carefully, and heed the advice. This type of note supplies generic information to the user.

The Chapter 1 100G Datalogging Gas Endpoint. 1. Transmission Modes. 1. Specifications. 2. Related Documents. 2. Meter Compatibility List. 2. Installation Prerequisites. 8. Chapter 2 Elster American Meter Installation. 11. Programming the 100G Datalogging Gas Endpoint Assembly. 16. Attaching the 100G Datalogging Gas Endpoint Assembly to the Elster American Meter. 18. Programming the 100G Datalogging Gas Endpoint Assembly. 25. Attaching the 100G Datalogging Gas Endpoint Assembly to the Sensus Meter. 27. Programming the 100G Datalogging Gas Endpoint Assembly. 34. Securing Brass Meter Tags to Flat-faced Meters. 43. Programming the 100G Datalogging Gas Endpoint Assembly. 53. Chapter 6 Elster American and Itron Actaris Commercial Meter Installation. 57. Programming the 100G Datalogging Commercial Gas Endpoint. 60. Programming the 100G Datalogging Gas Endpoint. 74. Diaphragm Meter. 76. Chapter 8 Dresser ROOTS Commercial Rotary Meter Installation. 81. Installation Prerequisites. 81. Installation Examples. 82. Programming the 100G Datalogging Gas Endpoint Assembly. 83. Programming Information. 85. Installing the Residential 100G Datalogging Gas Endpoint Assembly to the Dresser. ROOTS Rotary Meter. 89. Installing the 100G Datalogging Commercial Gas Endpoint on a Dresser ROOTS Rotary Meter. 90. Programming the 100G Datalogging Commercial Gas Endpoint Assembly. 91.

To Attach the 100G Datalogging Commercial Gas Endpoint to the Meter. 95. Completed Installation Examples. 97. Itron 100G Datalogging Gas Endpoints are radiofrequency RF devices designed to The 100G directmount endpoint reads and transmits a Standard Consumption Message SCM with The Itron 100G Datalogging directmount endpoint. This installation guide provides step-by-step instructions for installing the 100G Gas. Endpoint and the 100G Datalogging Gas Endpoint on a wide variety of meters. This Mechanical installation procedures are identical for both modules. 100G Datalogging Gas. Endpoint compatible meters are listed in the Meter Compatibility List. Transmission Modes. The 100G Datalogging Gas Endpoint transmits in one of three modes. Fixed Network Mode In this mode, a 100G Datalogging Gas Endpoint transmits a Output power in this mode is 250. Mobile and Handheld Mode In this mode, a 100G Datalogging Gas Endpoint Output power in this Datalogging Gas Endpoint transmits a high-powered RF message every 30 seconds. The Hard to Read Mobile and Handheld Mode An FCC license is not required to read 100G Datalogging Gas Endpoint. Specifications. Functional Specifications. Description. Power Source Tamper Detection. FCC Compliance. Part 15 certified. Industry Canada Compliance. RSS210 certified. Intrinsically Safe per. UL Class I, Division 1, Groups C and D. Product Identification. Numeric and barcoded endpoint type and serial number. Construction Materials. Gray polycarbonate housing and back plate with Operational Specifications. Operating Temperatures. Operating Humidity Program Frequency Transmit Frequency. Spread spectrum 908 to 924 MHz ISM band. Data Integrity. Verified in every data message. Tilt tamper and magnetic tamper. Related Documents. Document Title. Document Part Number. Gas Endpoint Meter Compatibility List Publication 100941SP01 The Meter Compatibility table lists meters compatible with the 100G Datalogging Gas. Endpoint.

Due to continuous research, product improvements, and enhancements, Itron Note On rare occasions the location of endpoint to meter mounting holes on This can prevent the 100G Datalogging Gas. Endpoint from properly mounting to the meter. Mfg. Model. Description Class. Comments. Endpoint. Type. Part No. Canadian Aluminum case meters Aluminum case meters Aluminum case

metersAluminum case metersAluminum case metersAluminum case metersAluminum case  
metersAluminum case metersAluminum case metersAluminum case metersAluminum case  
metersAluminum case metersAluminum case metersAluminum case metersAluminum case  
metersResidentialCommercialCommercialCommercialCommercialCommercialMust have  
front readingAluminum case metersMfg. Model. Canadian. Class. Part No.Aluminum case  
metersAluminum case metersAluminum case metersAluminum case metersAluminum case  
metersResidentialResidentialResidentialResidentialResidentialResidentialResidentialResidentialResi  
dentialResidentialResidentialResidentialResidentialResidentialMfg. ClassType.  
ResidentialResidentialResidentialResidentialResidentialResidentialResidential. Older meters may  
haveSprague directreadSprague directreadSprague directreadIndex boxes with 3ResidentialVertical  
index only. Vertical index only. Vertical index onlyMfg. SpragueResidential. Index boxes with  
3SpragueSpragueResidential. SpragueIntegratedResidential. SpragueIntegratedEndpoint. Part  
No.Canadian. Version of 250. Residential. IntegratedResidential. Requires Itron 1A. CFG0015001  
Kit. Includes 3dial,Slantfaced. ResidentialIntegratedResidential. SpragueSpragueEndpoint.  
Slantfaced. Requires Itron 1A adapterIndex boxes with 3Mfg. SpragueCommercialSeries  
B3Commercial. To attach an Elster. American endpoint,American AMR adapterDresser  
adapterSeries A1To attach an Elster. American endpoint,American AMR adapterDresser  
adapterEndpoint. Dresser ROOTS. Series A1No instrumentCommercial. American  
endpoint,American adapter kit.Dresser adapterSeries A1No instrumentCommercial.

American endpoint, American AMR adapter Dresser adapter Series Z compact Commercial. American endpoint, American adapter kit. Dresser adapter Instrument drive. Commercial. Standard index drive and Installation Prerequisites. Prior to installation, verify you have the following items Exceptions are noted on the Meter. Compatibility List on page 2. Small and medium flatblade or Phillips screwdrivers to remove and tighten Small putty knife residential meters. Meter seals, wire seal, and seal press to protect the meter from tampering, if Caution The 100G Datalogging Gas Endpoints can only be programmed using. FC200SR Handheld Computers loaded with EndPointLink or EndPointLink Pro Replacement screws to mount the 100G Datalogging Gas Endpoint assembly Replacement Screws. Meter. To mount the 100G. Datalogging Gas. Endpoint on the meter. Itron Part. Number. Elster American. Fillister head Fillister head Fillister head Number. Endpoint housing. Phillips panhead to mount Phillips, Fillister head to Commercial. Datalogging. Commercial endpoint Number. To mount the index and. Itron Part Number Datalogging Commercial This chapter provides instructions to install the 100G Datalogging Gas Endpoint on an. Elster American Meter. Installing the 100G Datalogging Gas Endpoint involves four tasks Note Properly dispose all unused screws, old index covers, gaskets, tamper seals, Do not leave materials on customer premises. To remove the index from the meter Elster American Meter Installation If the screws are not the correct Note You may use the removed index cover as a temporary storage container for Do not leave materials on customer premises. Hold one hand under the index to Remove the screw Set the index aside where it will not be damaged or fill with dirt, rain or snow. The Verify the index. If the screws are the correct length If the original screws were discarded, use the Endpoint. To Assemble the 100G Datalogging Gas Endpoint and Index Elster American Meter Installation.

Note Elster American meter indexes are available in different models. Index wrigglers on onefoot metersIndex meters on twofoot metersAn Elster American index withAn Elster American index withIf your index has mounting screw slots, skip steps 3 and 4. If your index has mountingDo not tighten the screw.Do not tighten theVerify positive engagement. Caution If the index wriggler has a drive slot, place the endpoint wrigglers driveFailure to mate the endpoint wriggler with the indexTighten the right index mounting screw.Elster American Meter InstallationVerify the cover is installedProgramming the 100G Datalogging Gas Endpoint Assembly. The 100G Datalogging Gas Endpoint must be programmed with the FC200SRCaution The 100G Datalogging Gas Endpoint must be programmed before use. Follow the steps in this section to properly program the endpoint.The

endpoint is programmed based on the meters drive rate. Take note of the index driveThe endpoint is programmed based on the driveTo Program the 100G Datalogging Gas EndpointFor best success, keep the FC200SR within 6 feet ofDuring programming, the 100G Datalogging Gas Endpoint is set to the nearest 100Caution Do not turn the drive wriggler faster than one turn per second.If the read result is higher than the number programmed in Step 1, the 100G. Datalogging Gas Endpoint is counting correctly. If the read result is not higher than the number programmed in Step 1, replaceElster American Meter Installation. Attaching the 100G Datalogging Gas Endpoint Assembly toAfter 100G Datalogging Gas Endpoint programming is complete, attach the endpointWarning For 5B Meters only If the 100G Datalogging Gas EndpointTo Attach the 100G Datalogging Gas EndpointFor onefoot meters Align the endpoint assembly wriggler perpendicular to the meterFor twofoot meters Align the endpoint assembly wriggler perpendicular to the meterDatalogging Gas Endpoint wriggler outside the meter drive slot.Tighten in anReturn to the first screw and tighten.

Continue with the second, third and last screwUse equal screw tension to tighten each screw. Note Meter manufacturers should torque the mounting screws 15 to 20 inchpounds.Press tamperElster American Meter InstallationAmerican meter is complete.PDF Version 1.6. Linearized No. Author Itron. Create Date 20090422 0919110500. Modify Date 20090422 0919210500. Subject Gas Solutions. Tagged PDF Yes. Metadata Date 20090422 0919210500. Creator Tool Acrobat PDFMaker 9.1 for Word. Title 100G Datalogging Installation Guide Direct Mount. Description Gas Solutions. Creator Itron. Document ID uuid1dde0f21cd0d46609002f82c8e44ea28. Instance ID uuidb7c9006ccc0048009356172335e1c56f. Producer Adobe PDF Library 9.0. Page Count 26.

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