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 © MKS Baratron Type 627B Absolute Pressure Transducer Six Shattuck Road Fax: (978) 975-0093 Andover, MA 01810-2449 E-mail: mks@mksinst.com (800) 227-8766 or (978) 975-2350 Web site: ... Seite 2 WARRANTY CONCERNING DATE-RELATED OPERATIONS. For the period commencing with the date of shipment of this equipment and ending two years later, MKS will, at its option, either repair or replace any part which is defective in materials or workmanship or with respect to the date-related operations warranty without charge to the purchaser. Seite 3 122430-P1 Rev B, 8/99 © MKS Baratron Type 627B Absolute Pressure Transducer... Seite 4 All rights reserved. No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or by any information storage or retrieval system, except as may be expressly permitted in writing by MKS Instruments, Inc. Table of Contents Table of Contents Pressure Transducer Safety Information..... 1
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 Figure 5: Top Panel Label for Units without the Optional Heater Status LEDs Seite 10 List of Figures and Tables viii... Pressure Transducer Safety Information Symbols Used in This Instruction Manual Definitions of WARNING, CAUTION, and NOTE messages used throughout the manual. Warning The WARNING sign denotes a hazard to personnel. It calls attention to a procedure, practice, condition, or the like, which, if not correctly performed or adhered to, could result in injury to personnel. Symbols Found on the Unit Pressure Transducer Safety Information Symbols Found on the Unit The following table describes symbols that may be found on the unit. Definition of Symbols Found on the Unit Protective earth (ground) Off (Supply) Earth (ground) On (Supply) IEC 417, No.5019 IEC 417, No.5017... DO NOT SUBSTITUTE PARTS OR MODIFY INSTRUMENT Do not install substitute parts or perform any unauthorized modification to the instrument. Return the instrument to an MKS Calibration and Service Center for service and repair to ensure that all safety features are maintained. Seite 14 Safety Procedures and Precautions Pressure Transducer Safety Information CHECK FOR LEAK-TIGHT FITTINGS Carefully check all vacuum component connections to ensure leak-tight installation.
 OPERATE AT SAFE INLET PRESSURES Never operate at pressures higher than the rated maximum pressure (refer to the product specifications for the maximum allowable pressure). Sicherheitshinweise für den Druckmeßumformer In dieser Betriebsanleitung vorkommende Symbole Sicherheitshinweise für den Druckmeßumformer In dieser Betriebsanleitung vorkommende Symbole Bedeutung der mit WARNUNG!, VORSICHT! und HINWEIS gekennzeichneten Absätze in dieser Betriebsanleitung. Warnung! Das Symbol WARNUNG! weist auf eine Gefahr für das Bedienpersonal hin. Erklärung der am Gerät angebrachten Symbole Sicherheitshinweise für den Druckmeßumformer Erklärung der am Gerät angebrachten Symbole Nachstehender Tabelle sind die Bedeutungen der Symbole zu entnehmen, die am Gerät angebracht sein können. Bedeutung der am Gerät angebrachten Symbole Ein (Energie) Aus (Energie) Erdschluß... Ersetzen Sie keine Teile mit baugleichen oder ähnlichen Teilen, und nehmen Sie keine eigenmächtigen Änderungen am Gerät vor. Schicken Sie das Gerät zwecks Wartung und Reparatur an den MKS-Kalibrierungs- und Kundendienst ein. Nur so wird sichergestellt, daß alle Schutzvorrichtungen voll funktionsfähig bleiben. Seite 18 Sicherheitsvorschriften und Vorsichtsmaßnahmen Sicherheitshinweise für den Druckmeßumformer Anweisungen zum Installieren der Armaturen! Alle Anschlußstücke und Armaturenteile müssen mit der Gerätespezifikation übereinstimmen, und mit dem geplanten Einsatz des Gerätes kompatibel sein. Der Einbau, insbesondere das Anziehen und Abdichten, muß gemäß den Anweisungen des Herstellers vorgenommen werden. Verbindungen auf Undichtigkeiten prüfen! Überprüfen Sie sorgfältig alle Verbindungen der Vakuumkomponenten auf undichte Stellen. Informations relatives à la sécurité pour le transducteur de pression Informations relatives à la sécurité pour le transducteur de pression Symboles utilisés dans ce manuel d'utilisation Définitions des indications AVERTISSEMENT, ATTENTION, et REMARQUE utilisées dans ce manuel. Symboles apparaissant sur l'unité Informations relatives à la sécurité pour le transducteur de pression Symboles apparaissant sur l'unité Le tableau suivant décrit les symboles pouvant apparaître sur l'unité. Définition des symboles apparaissant sur l'unité Marche

Terre de protection (sous tension) Arrêt (masse) Terre (masse) Ne pas installer des pièces de substitution ou effectuer des modifications non autorisées sur l'appareil. des réparations à un centre de service et de calibrage MKS pour tout dépannage ou réparation afin de garantir le l'intégrité des équipements de sécurité. Seite 22 Mesures de sécurité et précautions Informations relatives à la sécurité pour le transducteur de pression VÉRIFICATION DE L'ÉTANCHÉITÉ DES CONNEXIONS Vérifier attentivement toutes les connexions des composants pour le vide afin de garantir l'étanchéité de l'installation. EXPLOITATION AVEC DES PRESSIONS D'ENTRÉE NON DANGEREUSES Ne jamais utiliser des pressions supérieures à... Medidas de seguridad del transductor de presión Símbolos usados en este manual de instrucciones Medidas de seguridad del transductor de presión Símbolos usados en este manual de instrucciones Definiciones de los mensajes de advertencia, precaución y de las notas usados en el manual. Advertencia El símbolo de advertencia indica la posibilidad de que se produzcan daños personales. Símbolos hallados en la unidad Medidas de seguridad del transductor de presión Símbolos hallados en la unidad La tabla siguiente contiene los símbolos que puede hallar en la unidad. Definición de los símbolos hallados en la unidad Encendido Apagado (alimentación eléctrica) (alimentación eléctrica) Puesta a tierra Protección a tierra... No instale piezas que no sean originales ni modifique el instrumento sin autorización. Para asegurar el correcto funcionamiento de todos los dispositivos de seguridad, envíe el instrumento al Centro de servicio y calibración de MKS toda vez que sea necesario repararlo o efectuar tareas de mantenimiento. Seite 26 Procedimientos y precauciones de seguridad Medidas de seguridad del transductor de presión USE ACCESORIOS ADECUADOS Y REALICE CORRECTAMENTE LOS PROCEDIMIENTOS DE AJUSTE Todos los accesorios del instrumento deben cumplir las especificaciones del mismo y ser compatibles con el uso que se debe dar al instrumento. Arme y ajuste los accesorios de acuerdo con las instrucciones del fabricante. © The MKS Baratron Type 627B Absolute Pressure Transducer is part of the MKS family of general purpose pressure transducers designed to provide accurate, reliable, and repeatable pressure measurements in the range from 1K Torr to as low as 0.02 Torr Full Scale (FS). The instrument operates with ±15 VDC (±5%) input at ≤... Calibration and Service Center before shipping. The ERA Number expedites handling and ensures proper servicing of your instrument. Please refer to the inside of the back cover of this manual for a list of MKS Calibration and Service Centers. Warning All returns to MKS Instruments must be free of harmful, corrosive, radioactive, or toxic materials. Chapter Two: Installation How To Unpack the Type 627 Unit MKS has carefully packed the Type 627 unit so that it will reach you in perfect operating order. Upon receiving the unit, however, you should check for defects, cracks, broken connectors, etc., to be certain that damage has not occurred during shipment. 627 unit to a 651 controller, use part number CB259-5-10; for a metal braided shielded cable use part number CB259S-5-10. You can purchase interface cables to all MKS companion products from MKS (refer to Table 5), or optionally you can make cables that meet the appropriate specifications. For cables connecting to non-MKS products, MKS can provide normal shielding or braided shielded cable assemblies in a nominal 10'... Chapter Two: Installation Interface Cables Generic Shielded Cable Guidelines Should you choose to manufacture your own cables, follow the guidelines listed below: 1. The cable must have an overall metal braided shield, covering all wires. Neither aluminum foil nor spiral shielding will be as effective; using either may nullify regulatory compliance. 2. Product Location and Requirements Chapter Two: Installation Product Location and Requirements Ambient Operating Temperature The acceptable ambient operating temperature range for the 627 transducer is 15° to 40° C (59° to 104° F). The unit is temperature controlled at 45° C (113° F). Power Requirements The 627 transducer requires an external power source capable of supplying ±15 VDC (±5%) at ≤... Chapter Two: Installation Setup Setup Dimensions Note All dimensions are listed in inches with millimeters referenced in parentheses. The tolerances for the dimensions are ±0.1 inches (X.X) and ±0.01 inches (X.XX). 3.13 (79.5) Figure 1: Top View Dimensions (shown with the optional heater status LEDs) 3.87 1.38 0.21... Setup Chapter Two: Installation Fittings The 627 transducer is available with the following fittings: • ½" diameter (12.7 mm) tubulation • © Swagelok 8-VCR (female) • Mini-CF (rotatable) • NW-16-KF • NW-25-KF • © Swagelok 8-VCO (female) Mounting Instructions Mount the transducer with the inlet port pointing (vertically) downward. Chapter Two: Installation Electrical Information Grounding Note The ground of any external power supply and readout should be the same as the transducer ground (chassis ground) to minimize any possible ground loops which can affect the performance and stability of the system. Thread Locks The 15-pin connector with thread locks utilizes threaded posts onto which the mating connector is mechanically fastened using screws. This is the standard MKS style Type "D" connector. Slide Locks The 15-pin connector with slide locks utilizes slotted posts onto which the mating connector is mechanically fastened using a slide mechanism which engages the slots in the posts. Chapter Two: Installation Electrical Information Interface Connector Pinout Pin Number Assignment At Temperature Status* or Reserved Pressure Signal Output No Connection At Temperature Status Return* or Reserved Power Return (Power Common) -15 VDC +15 VDC No Connection Heater Failure Status* or Reserved Heater Failure Status Return* or Reserved No Connection... Start Up Chapter Two: Installation Start Up After installation, allow your transducer to warm up until it is stabilized, then check the transducer zero to verify the proper output. Refer to How To Adjust the Zero, page 33, for complete instructions on adjusting the zero controls on the 627 unit. Warm Up Time Allow sufficient time for your transducer to warm up. An MKS or MKS-compatible power supply is required to complete the pressure to DC voltage conversion. For a direct readout of the pressure measurement, a meter (analog or digital) is required. Instrument Components Chapter Three: Overview Instrument Components Zero Potentiometer Heater Failure Heater Temperature Status LED Status LED (optional) (optional) Interface Connector Coarse Zero Switch Figure 4: Top View of the 627 Transducer (shown with the optional heater status LEDs) Coarse Zero Switch This multi-position switch adjusts the transducer zero if the potentiometer fails to provide ZERO... Chapter Three: Overview Labels Labels Note The figures showing the instrument labels (Figures 5 through 7, and Figure 8, page 32) are not drawn to scale. Top Panel Labels The label on the top panel of the 627 unit identifies the potentiometer, and if ordered, the ZERO optional Heater Failure and Temperature Status LEDs. Labels Chapter Three: Overview Serial Number Label The serial number label, located on the seam of the band label, lists the unit's serial number, model code, full scale range, input voltage, and output voltage. The label also displays the CE mark signifying compliance with the European CE regulations. ZERO transducer (refer to How To Adjust the Zero Potentiometer, page 34) or at the front panel of any MKS Power Supply/Readout being used. If the potentiometer fails to provide sufficient ZERO adjustment, the... How To Adjust the Zero Chapter Four: Operation How To Adjust the Zero Potentiometer To adjust the potentiometer: ZERO 1. Install the transducer in a system and connect a power supply/readout. 2. Power the transducer and allow it to warm up and stabilize. Allow 2 hours for ≥... Chapter Four: Operation How To Adjust the Zero How To Adjust the Coarse Zero Switch Note Use the switch only if the potentiometer fails to COARSE ZERO ZERO provide sufficient adjustment. To adjust the switch: COARSE ZERO 1. Install the transducer in a system and connect a power supply/readout. 2. How To Adjust the Zero Chapter Four: Operation Suggested Pressures for Reading and Control The lowest suggested pressures for reading and control with the 627 transducer are listed in Table Lowest Suggested Pressures for Reading and Control Full Scale Range Lowest Suggested Pressure Lowest Suggested Pressure (Torr) ZERO the unit (refer to Figure 4, page 30), or at the front panel of any MKS or MKS-compatible power supply being used. Refer to How To Adjust the Zero, page 33, for complete instructions on how to adjust the transducer's zero controls. (transducer to electronics Inspect cable and transducer. module). Replace if necessary. Measurement slowly goes Overpressure and/or a build- Return to MKS for servicing positive over time up of contamination in the or transducer replacement. measurement cavity. Unstable zero output The ambient temperature may Ensure the ambient be too high. Appendix A: Product Specifications Electrical Specifications Appendix A: Product Specifications Electrical Specifications CE Compliance EMC Directive 89/336/EEC Electromagnetic Compatibility Product Safety Directive 92/59/EEC Product Safety Requirements Input Power Requirement Voltage ±15 VDC ±5% ≤ 250 mA Current Signal Output 0 to +10 VDC, 110% overrange, active zero Environmental Specifications Ambient Operating Temperature Range 15°... Physical Specifications Appendix A: Product Specifications Performance Specifications (Continued) Temperature Coefficients Zero ≥ 1 Torr units 0.002% FS/ °C 0.005% FS/ °C 0.1 Torr units 0.015% FS/ °C 0.05 Torr units 0.030% FS/ °C 0.02 Torr units 0.02% Reading/ °C Span (all ranges)

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