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Accuload iii.net manual español

Publikasjonsnr. Description Iss/Rev Rev Date AB06046 ACCULOAD III KDC DISPLAY JUMPER CONFIGURATION 0.4 8/1/09 AB06047 ACCULOAD III-SA (SPLIT ARCHITECTURE) APPLICATION WORKSHEET 0.0 4/1/02 AB06048 ACCULOAD III-SA HARDWARE WORKSHEET 0.1 6/1/05 AB06049 ACCULOAD III-Q HARDWARE WORKSHEET 0.1 9/1/07 AB06050 ACCULOAD III-S AND N4 HARDWARE WORKSHEET 0.2 9/1/07 AB06052 ACCULOAD III CARD READER INTERFACE APPLICATION BULLETIN 0.1 8/1/05 AB06053 ACCULOAD III HIGH SPEED PROVER OUTPUT APPLICATION BULLETIN 0.1 4/1/03 AB06054 ACCULOAD III SIDE-STREAM BLENDING APPLICATION BULLETIN 0.0 6/1/03 AB06055 ACCULOAD III TRUCK COMPARTMENT UNLOADING APPLICATION BULLETIN 0.1 10/1/10 AB06056 ACCULOAD III DOWNSTREAM INJECTOR BLENDING APPLICATION BULLETIN 0.0 2/1/04 AB06057 ACCULOAD III METERED INJECTOR WITH FLOW CONTROL APPLICATION BULLETIN 0.0 10/1/04 AB06058 ACCULOAD III BAY CONFIGURATION APPLICATION BULLETIN 0.0 7/1/04 AB06059 ACCULOAD III FLOW CONTROLLED ADDITIVE TEMPERATURE COMPENSATION APPLICATION BULLETIN 0.0 10/1/04 AB06061 ACCULOAD III TURBINE METER DIAGNOSTICS APPLICATION BULLETIN 0.0 5/01/04 AB06062 ACCULOAD III ALPHA NUMERIC PROMPTS APPLICATION BULLETIN 0.0 3/1/05 AB06066 ACCULOAD III COMFLASH MASS STORAGE EXPANSION BOARD APPLICATION BULLETIN 0.0 12/1/06 AB06067 ACCULOAD III EXPANDED PULSE OUTPUTS APPLICATION BULLETIN 0.0 10/1/06 AB06068 TRANSACTION LOG / EXCEL SPREADSHEET APPLICATION BULLETIN 0.1 9/1/11 AB06069 TCP/IP (ETHERNET & SLIP) COMMUNICATIONS FOR ACCULOAD III.NET 0.2 6/1/14 AB06071 ACCULOAD III KDC.NET JUMPER CONFIGURATION 0.0 7/1/09 AB06072 ACCULOAD III WILDSTREAM BLENDING 0.0 5/1/09 AB06073 ACCULOAD III VAPOR RECOVERY 0.2 2/1/19 MN06010 LOAD PRINTER (I/O) 0.1 7/1/03 MN06011 LOAD PRINTER (S) 0.1 7/1/03 MN06111L ACCULOAD III ALS MODBUS COMMUNICATIONS MANUAL 0.1 9/1/01 MN06113 ACCULOAD III PROM INSTALLATION MANUAL 0.7 7/1/10 MN06115 ACCULOAD I TO III UPGRADE INSTALLATION 0.6 11/1/01 MN06116 ACCULOAD III VIRTUAL LOAD RACK SIMULATOR I/O MANUAL 0.3 10/1/13 MN06117 P2412 CONVERTER (ACCULOAD PRESET ACCESSORY) INSTALLATION 0.0 10/1/99 MN06129 ACCULOAD III OPERATOR REFERENCE 1.6 10/1/11 MN06130L ACCULOAD III COMMUNICATIONS 1.4 2/1/13 MN06131L ACCULOAD III ALX MODBUS COMMUNICATIONS MANUAL 1.4 10/1/11 MN06135GE ACCULOAD III INSTALLATION - GERMAN 1.3 6/1/17 MN06135 ACCULOAD III INSTALLATION 1.3 6/1/17 MN06136 ACCUMATE FOR ACCULOAD III-X I/O MANUAL 0.6 9/1/13 MN06139 ACCULOAD III-SA OPERATØR REFERANSE 0.3 4/1/08 MN06140 ACCULOAD III-SA INSTALLASJONSHÅNDBOK 0.6 8/1/15 MN06143 ACCULOAD III-N 4 INSTALLASJONSHÅNDBOK 0.4 8/1/15 MN06144 NÆRHET KORTLESER I/U MANUELL 0.5 10/1/18 MN06145 ACCULOAD II TIL III OPPGRADERING I/U MANUELL 0.2 9/1/07 MN06146 ACCULOAD TANK BEVISER GUIDE 0.1 7/1/10 MN06153 NÆRHET KORTLESER OG GATEMATE PROGRAMVARE 0.0 9/1/06 TB06001 PROGRAMMERING ACCULOAD III FOR MASSE PULS INPUT 0.0 12/1/03 TP06004 ACCULOAD III BEREGNINGER 0.3 8/1/12 1 Emissão/Rev. (1/12) Smith Meter AccuLoad III Predefined specifications for electronic distribution Bulletin SS06036GS Smith Meter AccuLoad III is a multiprocessor-based instrument that can be configured to fit the application. It is able to control one, two, three, four, five or six load arms, as a pure product instrument or mixture. The device has the flexibility to handle various mixing applications, pure proportional mixing, sideflow ratio mixing and sequential mixing. AccuLoad III has flash memory for easy firmware updates and large storage capacity. AccuLoad III-S Hardware Features Up to three single or dual heart rate product monitor (S) Inputs Up to six single or dual heart rate product monitor (Q) inputs Up to six products for proportion or sequential mixing Up to 24 additivintimes of the installed automatic hardware detection meter up to six arms (Q); Use with 2 arms (S) Each programmable arm for clean product, sequential mixing, proportional mixing, or lateral flow mixing Up to 50 recipes Inputs and outputs configured by the user Control of locking valve and feedback (sequential mixture) Additive control (with meters, pulse or communication) Four communication ports, in addition to the Ethernet port Calculation of the meter factor Language /programmable messages Turbine meter diagnostics Boolean /algebraic processing Event record/revision track Independent operation Load ticket printing/emulation BOL configurable continuous monitoring of critical functions Two-way data communication; Communication Analyzer Automatic Temperature and Pressure Compensation and Density Correction LPG API Tables for Crude Oil Brazilian Temperature Tables GPA TP-15 and TP-27 Five Safety Levels Automatic Flow Control with Explosion-Proof Recovery AccuLoad III-Q Hardware Programmable Valve Control Data File Transaction (Optional), also known as Expansion Card ComFlash Mass Storage Flash-based Memory Network-based features Ethernet connection features (see page 4) Smith Meter card reader interface and database/ Sening Connectivity Blue Tooth Applications Applications include batch loading of alcohols, gasoline, antifreezes, lubricating oils, flammable oils, solvents, fertilizers, LPG, LNG and chemicals. The system is ideal for trucks, barges or railway loading in load racks, bulk product facilities, brewer, processing and tank facilities where clean products, as well as mixed products, Load. Standard features AccuLoad loading arm features are individually programmable, providing flexibility to configure each arm. The following charts and descriptions define load types, including pure product and different mixed styles. The AccuLoad III-S hardware has three product meters that can be used between the two load arms, while accuload hardware III-Q has six product meters available to be used between the six load arms. The most reliable name in the measurement 2 AccuLoad-Q Hardware Arm 1 Arm 2 Arm 3 Arm 4 Arm 5 Arm 6 STR/SEQ STR/SEQ STR/SEQ STR/SEQ STR/SEQ STR/SEQ 2 Prod RAT STR /SEQ STR /SEQ STR/SEQ STR/SEQ N/D 2 Prod RAT 2 Prod RAT STR/SEQ STR/SEQ N/D N/D 2 Prod RAT 2 Prod RAT N/D N/D N/D 3 Prod RAT STR /SEQ STR /SEQ STR/SEQ STR /SEQ N/D N/D 3 Prod RAT 2 Prod RAT STR/SEQ N/D N/D N/D 3 Prod RAT 3 Prod RAT N/D N/D N/D 3 4 Prod RAT STR /SEQ STR/SEQ N/D N/D N/D 4 Prod RAT 2 Prod RAT N/D N/D N/D 5 Prod RAT STR/SEQ N/D N/D N/D 6 Prod RAT N/ D I/D I/D I/D I/D Prod = Products; SEQ = Sequential; SIZE = Clean; RAT = Ratio Note: The ratio of two products can be the proportion of two products or two combinations of the product side current. Hardware AccuLoad III-S Arm 1 Arm 2 STR/SEQ STR/SEQ Prop 2 prod STR/SEQ Prop 3 prod I/D Prod = Products; SEQ = Sequential; SIZE = Clean; RAT = Pure Product Ratio AccuLoad III is designed to handle loading clean products. All products can be loaded at the same time. Sequential blend AccuLoad III is designed to sequentially control the load of up to six chemicals or oil through each load arm. All charging arms can be loaded at the same time. Proportional blend AccuLoad III-Q is designed to control the mixing of up to six petroleum products and accuload III-S on up to three products through a single loading arm. All products flow through a measuring system, mixed downstream by the measuring system and pass through a single loading arm for transport or storage. Sideflow blend AccuLoad III is designed to control the mixture of a secondary product and a main product. The secondary product is measured and controlled by a valve, and the main product is power without flow. Another meter and control valve is placed downstream of the mixing point and controls the flow of the mixed product. Hybrid blend AccuLoad III supports hybrid blend, which is defined as a combination of sequential blending and proportional mixing. A typical hybrid mixing arm configuration can be three sequential products and one or two Share. Sequential products flow one at a time, and in most cases one of the proportional products flows simultaneously with each sequential product. Proportional products can be channeled downstream or upstream by the sequential product meter. In a hybrid arm, there must be at least one sequential product configured. Natural flow mixing AccuLoad also supports natural flow mixing, which provides continuous proportion (no preset value inserted) of the product mixture. One of the products cannot be controlled (natural flow). This option is available with hybrid arm configuration. The natural flow mixture supports percentage changes in the mixture in real time and also changing meters to accommodate different flow rates. Temperature compensation The temperature compensation option allows the customer to compensate for temperature variation from reference temperature. This option is used with an RTD input or a temperature transducer, and with the exception of the accuracy of liquid temperature measurement, will accurately match the correct volume correction factor for ASTM-D and API MPMS CH over the liquid temperature range from -58 F to 302 F (-50 C to 150 C). The following API tables can be programmed in AccuLoad II: 5A, 5B, 5D, 6A, 6B, 6C, 6D, 23A, 23B, 23D, 24, 24A, 24B, 24D, 53A, 53B, 53D, 53E, 54, 54A, 54B, 54C, 54D, 54E, 59A, 59B, 59D, 59E, 60A, 60B, 60D, 60E, BR1A, BR1P and BR2P. Pressure compensation Option allows the customer to compensate for the volume of the product delivered

at various pressures according to API 11.1 tables, and using a pressure sensor input of 4-20 ma per preset position. This option also includes real-time control functions to keep system pressure on the meter at a minimally acceptable user-defined level (pressure transducer not included). This option is especially useful for lightweight products such as LPG, where the compressibility factor varies greatly with different pressures. Page 2 SS06036GS Issue/Rev. 0.9 (1/12) 3 Density Correction Option allows the customer to correct the volume of the product supplied with varying densities. This can be a frequency input or a 4-20 ma input. Measuring injectors, piston injectors and smart additives AccuLoad III are designed to provide maximum flexibility when it comes to additive control. The device is able to handle meter injectors, piston injectors and intelligent additives at the same time. AccuLoad is able to control four systems of additive injector meter. (See hardware options for systems additional information.) AccuLoad controls the magnets of additives to inject the additive exactly into the main product. It monitors the pulses of the additive meter and controls the amount of the additive, based on the impulses received from the additive meter and the main product meter. Monitoring additives and intelligent additives allows AccuLoad to monitor the feedback of piston injectors from additive products. AccuLoad monitors the injector's feedback switches for a state change and counts errors and alarms, if no change is detected in the cycle or a time period, depending on how the device is programmed. AccuLoad will total the volume of additives based on confirmation signals and a programmable volume per cycle. The total volume will be printed on the emulation ticket printed on the output of the shared printer. For smart additives, the firmware was also designed with a master/slave communication type with AccuLoad as master and Additive Injector System as slave. AccuLoad constantly interrogates the additive injector system for a status change. AccuLoad can be operated with control of communication over Intelligent Additive Injector System or with communication/heart rate control. When AccuLoad has communication control over the additive system, it constantly monitors the additive system for its status, consulting additive totals and signals to the system when injecting additive - throughout the communication line. The AccuLoad communication package is also designed with a pass-through communication mode. In this operating mode, the supervisor computer can communicate with the Additive Injector System through the communication lines that were performed for AccuLoad and AccuLoad for additive injector Systems. Dual-pulse safety This option offers continuous monitoring, error indication alarm, and pulse transfer correction for each preset position in accordance with API Oil Measurement Standard, Chapter 5.5, Level A and Petroleum Institute Standard, IP 252/76, Part XIII, Section 1, Level A (High-Safety PPS Heart Rate Transmitters are not included). The high-safety pps transmitter provides four signals: A, Inverted A, B and Inverted B. Signals A and B are 90 degrees off-phase electrical and are used for dual pulse safety. Signals A and Inverted A and B and Inverted B are 180 electrical degrees out of phase and are used to detect the transmitter's power. If the power sensor is not required, only A and B are used for dual heart rate safety. Automated proofing mode O AccuLoad III offers an automated proof of operation. When automatic proofing is enabled, AccuLoad calculates the measurement factor for a test run based on information collected during the test. The operator can select the flow rate and measurement factor tested using the AccuLoad keyboard. After the test is complete, the operator sets the volume and temperature of the evidence, AccuLoad calculates the new measurement factor and the operator has the ability to download to the program or ignore it. AccuLoad also has the ability to provide an average measuring factor over a maximum of six tests. This feature allows the operator to test the meter for all four products, and four measuring factors and flows associated with each product, without having to enter programming mode for each product and measurement factor. Boolean and algebraic processing AccuLoad III gives the customer the flexibility to configure inputs and outputs for non-standard tasks on the drive. Through Boolean processing, relays can be switched on and off through customer-defined equations and events. For example, a rereading is required to close at the first travel point of the load. This can be configured using Boolean processing and does not require special Smith Meter software. Algebraic processing is also an area that the customer can use to do simple mathematical calculations that are not in the device. These calculations can be used in configurable reports for the current batch to be run by the entity. Unloading When using firmware audit and higher, AccuLoad III allows a truck room to be unloaded without specifying a predefined volume. Implementation of this function requires that a loading arm be identified as discharge; up to six load arms can be configured in this way. AccuLoad Interface Control Board Hardware Options AccuLoad INTERFACE Control Card provides added flexibility for accuLoad standard features. The optional AICB card offers ten additional injector systems of additives with additional programmable meters or twenty outputs. With the optional AICB, The Fixed-body AccuLoad III has the ability to support up to fourteen injections with meters, fourteen meter inputs, fourteen solenoid valve outlets and fourteen additive pump outputs. The addition of two AICB plates allows this device to handle up to twenty-four additive injector systems (meters, additive pumps and solenoid valves) or forty additional programmable AC outputs. The optional AICB card(s) are designed to be Emission/Rev. 0.9 (1/12) SS06036GS Page 3 4 mounted on the chassis AccuLoad III or in an independent chassis. One of the four communication ports is required to communicate with the AICB board. ComFlash Mass Storage Expansion Card This optional hardware module provides additional non-volatile memory for storing transaction data. The module comes with a 512 M SD card, which has the ability to store thousands of additional transactions. The module is only available on COM 4 and uses RS232 communication. The A3X also offers alarms for the expansion card to ensure proper operation. Smith Meter proximity card reader can also operate on COM 4 in conjunction with the ComFlash card. Interface card reader When using firmware revision and higher, AccuLoad III can collect proximity card data via a proprietary interface card. AccuLoad can also send the card's data and status to a host computer. The card reader interface is activated by selecting the card reader option in the serial code of the communication function program. This new interface allows for greater functionality and security, ranging from simple stamping of the transaction with the driver's card data to a mini automation system with validation and authorization. Ethernet connection features ARP/RARP support and DHCP PING SLIP file echo diagnostics Smith Meter protocol FTP protocol and Modbus protocol support via TCP/IP Limited functionality of HTTP server Dynamic Name server finder (DNS client) Simple Mail Transport Protocol (SMTP) V3 Mail Protocol (POP3) A collection HTML and XML pages and scripts CGI Web Server command line argument pass Support for network printers (LPR client) Addition of an external background process monitor / tcp to accuLoad III Compliance with TCP / IP specifications (AccuLoad III) Accuracy Estimated accuracy: Raw at standard temperature for the ratio of gross volume, except for the accuracy of liquid temperature measurement, will accurately match the correct astm-d volume correction factor in the liquid temperature range from -58 F to 302 F (-50 C to 150 C). Temperature measurement accuracy: The liquid temperature is measured at ±0.72 C (± 0.4 C) along the liquid temperature range from -328 F to 572 F (200 C to 300 C). The liquid temperature is measured at ±0.45 C (± 0.25 C) along the liquid temperature range from 32 F to 572 F (0 C to 300 C). Stability: 0.1 F (0.06 C)/year. Flow totalization: Inside an input frequency pulse. Electrical input Instrument power: Universal input from 100 to 240 V AC, maximum 58 W, 48 to 63 Hz. Ac circuit is protected by fuses. Surge current: Maximum 28A for 0.1 seconds. Power outage tolerance: Power outages of more than 0.05 seconds (typically) will result in a neat shutdown of AccuLoad, and the control valve will immediately receive the signal to close. Note: A constant voltage transformer (CVT) is recommended if the available AC is suspected of not meeting these specifications. Input pulse: Type: Optically insulated, transition clock transmitter input, high speed. The input pulse must exceed V (high min.) for a period of time and then fall below V (low) to be recognized as a pulse of AccuLoad II. V (High): 5 V CC minimum to 28 V CC maximum. V (low): 1 V MAX CC. Input impedance: 1.8 KΩ. Heart rate resolution: 1 heart rate/minimum unit, maximum heart rate/unit. Frequency range 0 to 10.0 khz. Answer: Inside a pulse to a change in flow rate. Mode: Single, double, double density with power detection. Coating cycle: 35/65 65/35 (on/off). Temperature probe: Type: four wires, 100 Ω platinum resistance Temperature detector (PRTD). Coefficient of 32 F: Q/Q/F (Q/Q/C). Temperature range: -148 F to 572 F (100 C to 300 C). Difference: The deviation from the temperature probe can be adjusted using the AccuLoad keyboard in ± 0.1 degrees in the temperature measurement unit used. Self-calibration: Compensation of probe length that does not require resistance in probe balancing. Analog (4-20 ma): Type: Two-wire power circuit receiver, 4-20 ma, insulated from the ground, programmable according to function. Area adjustment: Adjustable to the application via accuLoad keyboard or communication in tenths of the device used. Input charge: 50 Ω. Accuracy ± 0.025% of the range resolution: A part in voltage drop: maximum 2 volts. Sampling rate: One minimum of sample/300 msec. Page 4 SS06036GS Emissions/Fox. 0.9 (1/12) 5 Analog (1-5 V CC): Type: Receiver of two-wire voltage circuit, 1-5 V DC, earth insulated, programmable according to function. Area adjustment: Adjustable to the application via accuLoad keyboard or communication in tenths of the device used. Inlet fee: 1 m Ω. Accuracy ± 0.025% of the range. Resolution: Part in Sampling Rate: One sample /300 msec minimum. AC inputs: Type: Optically insulated fixed state voltage sensor. Input voltage range 90 to 280 V APPROX. Voltage recording: 90 V MINIMUM APPROX. Voltage drop: 30 V maximum CA. Current with maximum voltage: 20 ma maximum. Input resistance Ω typical. DC inputs: Type: Optically insulated fixed state voltage sensors. Input voltage range 5 to 28 V CC. Voltage recording: Minimum 5 V CC. Voltage drop: Less than 1 volt. maximum voltage: maximum 20 m. Entry level duration: minimum 120 msec. Keyboard: Type: Encapsulated metal, one piece, sealed, without moving parts, piezoelectric model. Protected from environmental disturbances. Display: The graphical display consists of 240-by-64-pixel lcd modules (liquid crystal display) with LED backlight. DC output effects: 24 V DC ±10%, 1max, protected from short circuit. AC outputs: Type: AC SSD relays, optically insulated. User programable depending on the function. Load voltage range: 90 to 280 V AC (rms), 48 to 63 Hz Steady state load current range: 0.05A (rms) minimum up to 1.0 A (rms) maximum at an inductive load. Leakage current at maximum rated voltage: 5.2 ma (rms) 240 V AC. Voltage drop in state: 2 V CA with maximum load. CC outputs: Type: Optically insulated SSD output. User programable depending on the function. Programmable polarity (normally open or normally closed).* Voltage with switch lock: 30 V MAX DC. Charging current: 150 ma maximum with 0.6 volt drop. Note: *Exit is normally open. Analog (4-20 ma): Type: Two-wire power circuit transmitter, 4-20 ma, insulated from the ground, programmable according to function. Area adjustment: Adjustable application via AccuLoad keyboard or through communication. Accuracy: ± 0.025% of the range. Resolution: Part in load voltage: Maximum 4 volts. Analog (1-5 V CC): Type: Two-wire voltage circuit transmitter, 1-5 V DC, painted insulated, programmable according to function. Area adjustment: Adjustable application via AccuLoad keyboard or through communication. Accuracy ± 0.025% of the range. Resolution: Part in pulse output 1 and 2: Type: Optically insulated SSD output. Pulse output devices can be selected by the application of the AccuLoad keyboard or communication. Programmable polarity (normally open or closed). Voltage with switch lock (off): 30 V CC max. Charging current (on): 10 ma with 0.6 volt drop. Frequency range 0 to 3000 Hz. Coating cycle: 50/50 (on/off). Pulse output 3, 4 and 5: Type: Solid state digital power laser output switch Load current: 110 ma max. Frequency range Hz. Coating cycle: 50/50 (on/off). Programmable maximum frequency output. All destined pulses will finally be transmitted; the total period may be longer to ensure that all heart rates are transferred. Note: When used, these outputs use the DC starting points of KDC (DC output 1-3, respectively, and also the 3 digital inputs 1-3). Environment Operating room temperature -40 o F to 140 o F c to 60 o C). Humidity: 5 to 95% with condensation cabinet: Explosion proof (NEMA 7, Class I, Group C and D) and waterproof (NEMA 4X), IP65. Issue/Fox. 0.9 (1/12) SS06036GS Page 5 6 UL/CUL Approvals: Class I, Division 1, Group C&D; Class II, Group E, F and G, UNL-UL chassis 4X, CNL-CSA chassis 4. Class I, Zone 1, Group IIB, IP65. Class I, Zone 1, AEx d IIB T6, IP65. UL/CUL file E23545 (N). ATEX / IEC Ex: DEMKO 02 ATEX X IEC Ex UL X Ex d IIB T6 Gb IP 65 Tamb = -40 C to +60 C. Notes: AccuLoad III Standard does not contain inherently safe circuits; Therefore, all peripheral equipment should be suitable for the area where it is installed. AccuLoad III- S Weight: 22.7 kg (50 lb). AccuLoad III - Q Weight: 57.5 kg (125 lb). Electromagnetic compatibility meets the requirements of EMC Directive 2004/108. IEC/EN electromagnetic emissions : Generic standards - Emission standard for residential, commercial and light industrial environments IEC/EN 55022: ITE - Features of radio interference - Limitations and measurement methods Electromagnetic immunity: IEC/EN : Generic industrial environments of immunity standards. IEC/EN : Limits on harmonic power emissions. IEC/EN : Limits on voltage fluctuations and burstin L-V supply systems. IEC/EN : Electrostatic discharge (severity 4). IEC/EN : Radiated electromagnetic field immunity, RF (severity level 3). IEC/EN : Transient electrical immunity test/ rapid explosion (severity level 4). IEC/EN : Immunity to surge test (class 3). IEC/EN : Immunity to RF induced LED disorders. IEC/EN : Energy frequency magnetic field immunity test. IEC/EN : Immunity tests for voltage variations, short interruptions and voltage displays. General communication number on four ports, plus Ethernet ports. Configuration: Multidrop network. Up to 32 AccuLoad IIIs can be connected in the same transmission and receipt of data lines, through serial communication. Standard IT practices should be followed when connecting multiple AccuLoad IIIs via an Ethernet hub, router, or switch. Period: Keyboard – selectable for prices of 1200, 2400, 3600, 4800, 7200, 9600 or bps (serial communication) with asynchronous data. Data format: A programmable boot bit, seven or eight bits of programmable data itself, odd or uneven, one breaker. Line protocol: Half duplex, full duplex, no drawing echo. Data structure: ASCII- character-oriented, modeled according to ISO protocol standard: Smith Meter ASCII LRC, Smith Meter ASCII CR, Smith Meter ASCII binary, Modicon Modbus (PI- MBUS -300 Rev. D). Smith and modbus protocol on TCP/IP. AccuLoad II Style: Terminal Mode, Mode Ethernet: 10/100 Base TRJ-45. Connector (twisted pair) 8 or 10 pins UTP. EIA-232 (1 dedicated 2 programmable). Type: Interface with EIA-232 data communication standards. Data transmitters are of the tristate model. Typical applications: Print product receipt tickets (used with a standalone ASCII printer or as a bol emulation automation backup) or communication with product management automation systems. Up to 16 AccuLoads can be connected in the same transfer and receive rows of data. EIA-485 (1 dedicated, 2 programmable) Type: Interface with EIA data communication standards Typical applications: Communication with product management automation systems, additive injection systems. Number of devices per line of communication: Up to 32 AccuLoad loads can be connected to the same transfer and receive data line. Specifications (AICB Optional tray) Electrical input DC instrument power: 24 V CC ± 10%, maximum 1 watt Input pulse: Type: High speed, triggered by transition, optically insulated, compatible with contact lock, open collection or voltage with inlet/spring pulse transmitter. The input heart rate must exceed V (high min.) for a period of time and then fall below V (low) to be recognized as pulse. V (High): 10 V CC minimum at 24 V CC maximum. V (low): 8 V CC max. Heart rate resolution: 1 heart rate/minimum unit, maximum heart rate/unit. Frequency range 0 to 5 khz. Answer: Inside a pulse to a change in flow rate. Minimum heart rate width: 50 μs. Page 6 SS06036GS Emissions/Fox. 0.9 (1/12) 7 Electrical outputs VEKselström outputs: Type: AC SSD relays, optically insulated. User programmable by the host depending on the role. Load voltage range: 90 to 275 V AC (rms), 48 to 63 Hz Steady state load current range: 0.05A (rms) minimum 0.5 A (rms) maximum at an inductive load. Maximum rated leakage current: 0.1 ma (rms) maximum at 240 V AC. Voltage drop in live state: 1.5 V AC with maximum load. Environment Operating room temperature -40 o F to 140 o F (-40 C to 60 o C). Modeling I Humidity: 5 to 95% with condensation. External chassis: Explosion proof (NEMA 7, Class I, Groups C and D) and waterproof (NEMA 4X), IP65 UL/CUL approvals: Class I, Division 1, Group C and D; Class II, Group E, F and G, UNL-UL 4X, CNL-CSA chassis 4. Class I, Zone 1, AEx d IIB T6, IP65. ATEX / IEC Ex: DEMKO 11 ATEX X IEC Ex UL X Ex d IIB T6 IP65 Tamb = -40 C to +60 C. ALIII Q XP ALX1 A00000 C Hardware model designation ALIII - S ALIII - Q Chassis XP - UL / CUL. EEx d IIB, IP65 DEMKO A / S Blank hardware options - None A - AICB AA - (2) AICB * - Mass storage expansion card Med- Flash 3 AM - AICB card and Com- Flash AAM - (2) AICB card and analog modules ComFlash * 2 1 DIGIT - number of RTDs 2 DIGITS - number of inputs 4-20 ma 3 DIGITS - number of outputs 4-20 ma 4 DIGIT - number of inputs 1-5 V CC 5 DIGITS - number of outputs 1-5 V CC Firmware ALX1 - Operation of an ALX2 arm - Two-arm operation ALX3 - Three-arm operation* PEMEX Non-adjustable volume option *Note: Not available with ALIII -S ALX4 Hardware - Four-arm operation* ALX5 - Five-arm operation* ALX6 - Six-arm operation* ALP1 - Operation of an ARM ALP2 - Operation two-arm ALP3 - Three-arm operation * ALP4 - Four-arm operation* ALP5 - Five-arm operation* ALP6 - Six-arm operation * 1 A full model number is required when ordering accuLoad III. 2 Maximum 6 analog modules. 3 ComFlash requires production date of A3X 2006 or later and Rev firmware and higher. If the production date is older than 2006, the EAAI hardware must be updated. Issue/Fox. 0.9 (1/12) SS06036GS Page 7 8 AICB Modeling (Externally Mounted) Model designation Casing REM XP Hardware options A- AICB AA Boards - (2) AICB XP - Explosion-proof programmable outputs/inputs 4 Accu HardwareLoad III-S Digital inputs DIGITAL CA CC Total Standard AI Optional AC CC Digital outputs Total Standard Optional Analog Inputs/Outputs Up to 6 AccuLoad III-Q Hardware Digital Inputs AC CC Total Standard Optional (One AICB) Optional (Two AICBs) AC CC Total Standard Digital Outputs Optional (one AICB) Optional (two AICBs) Analog inputs/outputs Up to 6 4 Eight of the CCs can be programmed individually as inputs or outputs; the number specified here is the maximum if all are programmed as inputs or all programmed as outputs. Página 8 SS06036GS Emissão/Rev. 0.9 (1/12) 9 12.6 (322) 1.00 NPT para entradas de conduítes 5 pontos característicos 21.6 (547) 1.25 NPT para para entradas de conduítes 2 pontos característicos 13.8 (351) 7.8 (198) C L 3.5 (89) 3.5 (89) 4.88 (124) 6.0 (152) 0.5 - 13 UNC 2B x.050 profundidade 8 pontos caraterísticos 8.5 (216) 7.12 (181) 4.12 (105) 17.0 (432) 3.75 (95) 7.30 (105) 185) 1.00 NPT para entradas de conduítes 1 ponto característico C L 4.0 (102) 8.0 (203) Figura 1 Invólucro à prova de explosão Hardware ALIII-Q Emissão/Rev. 0.9 (1/12) SS06036GS Página 9 10 1-11.5 NPT 2 pontos 8.0 (203) 2.69 (68) 4.2 (107) 8.5 (216) 7.5 (190) 14.2 (361) 3.00 (76) 6.00 (152) 11.8 (300) Visão posterior 5.00 (127) 2.5 (64) 1.25 NPT para entradas de conduítes 1.25 3 pontos característicos 0.375 - 16 UNC 2B x.56 Profundidade 8 pontos característicos (montagem na parte inferior e posterior) 3.56 2.87 (73) 1.4 (36) 4.2 (107) 8.5 (216) Figure 2 Explosion-proof enclosure Hardware ALIII-S Page 10 SS06036GS Issue/Fox. 0.9 (1/12) 11 2.50 tor (64) 6.50 to thu (165 tor) 13.4 tor (340) 10.10.50 4 (264) 2.00 (51) 6.2 (157) 1.00 NPT for channel input 1.50 (38) 9.75 (248) 1.50 (38) 1.25 NPT for channel inputs 2 characteristic points * AICB external casing weight is about 27 lbs. Figure 3 Optional external enclosure AICB Edition/Fox. 0.9 (1/12) SS06036GS Page 11 12 Revisions included in the SS06036GS Issue/Rev. 0.9 (1/12): Page 6: Updated electromagnetic compatibility. (Pages 6 and 7) CENELEC authentication replaced by ATEX/IEC Ex. Headquarters: 500 North Sam Houston Parkway West, Suite 100 Houston, TX USA Phone: +1 (281) Fax: +1 (281) Operations: Measuring products and equipment: Ellebek, Germany +49 (4101) 3040 Erie, PA USA +1 (814) Integrated measurement systems: Corpus Christi, TX USA +1 (361) Kongsberg, Norway +47 (32) The specifications in this document are subject to change without notice, and any user of such specifications must check with the manufacturer whether the specifications are applicable. Otherwise, the manufacturer assumes no responsibility for the use of specifications that may have been altered and are no longer in force. This information is subject to change. 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