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Page 58 Reference ManualRosemount 848T October 2011October 2011 Rosemount 848TRosemount 848T October 2011October 2011 Rosemount 848T. Mounting OptionsRosemount 848T October 2011Page 63 Reference ManualOctober 2011 Rosemount 848T. Table A1. Rosemount 848T FOUNDATION fieldbus Ordering InformationRosemount 848T October 2011October 2011 Rosemount 848T. Appendix B Product CertificatesRosemount 848T October 2011October 2011 Rosemount 848TRosemount 848T October 2011Page 69 Reference ManualOctober 2011 Rosemount 848TPage 70 Reference ManualRosemount 848T October 2011Page 71 Reference ManualOctober 2011 Rosemount 848TPage 72 Reference ManualRosemount 848T October 2011October 2011 Rosemount 848TPage 74 Reference ManualRosemount 848T October 2011October 2011 Rosemount 848TRosemount 848T October 2011. INSTALLATION The installation guidelines presented by the drawings must be. Page 77 Reference ManualOctober 2011 Rosemount 848T. Page 78 B14Rosemount 848T October 2011. Page 81 October 2011October 2011 Rosemount 848TRosemount 848T October 2011Page 85 Reference ManualOctober 2011 Rosemount 848T. DEVICE DESCRIPTIONS Device Descriptions DD are specified tool definitions that are. Page 86 Reference ManualRosemount 848T October 2011Page 87 Reference ManualOctober 2011 Rosemount 848TPage 88 Reference ManualRosemount 848T October 2011Page 89 Reference ManualOctober 2011 Rosemount 848TScheduled data. Page 90 Reference ManualRosemount 848T October 2011. Function Block Figure C6 shows an example of a link. Page 91 Reference ManualOctober 2011 Rosemount 848T. Appendix D Function BlocksRosemount 848T October 2011. Table D1. Analog Input Function Block ParametersPage 93 Reference ManualOctober 2011 Rosemount 848T. Table D1. Analog Input Function Block Parameters. Number Parameter Units Description. Page 94 Reference ManualRosemount 848T October 2011. Figure D2. Analog Input.

Function Block SchematicOctober 2011 Rosemount 848TPage 96 Reference ManualRosemount 848T October 2011Page 97 Reference ManualOctober 2011 Rosemount 848TPage 98 Reference ManualRosemount 848T October 2011Page 99 Reference ManualOctober 2011 Rosemount 848T. MULTIPLE ANALOG The Multiple Analog Input MAI function block has the. Page 100 Reference ManualRosemount 848T October 2011. Table D4. Multiple Analog Input Function Block ParametersOctober 2011 Rosemount 848T. Figure D3. Multiple Analog. Input Function Block Timing. DiagramRosemount 848T October 2011Page 103 Reference ManualOctober 2011 Rosemount 848TPage 104 Reference ManualRosemount 848T October 2011Page 105 Reference ManualOctober 2011 Rosemount 848T. INPUT SELECTOR The Input Selector ISEL function block can be used. Page 106 Reference ManualRosemount 848T October 2011. Table D6. Input Selector Function Block ParametersPage 107 Reference ManualOctober 2011 Rosemount 848T. Functionality. Figure D5. Input Selector. Function Block Schematic OUTRosemount 848T October 2011Page 109 Reference ManualOctober 2011 Rosemount 848TPage 110 Reference ManualRosemount 848T October 2011. Figure D6. Input Selector. Page 111 Reference ManualOctober 2011 Rosemount 848T. Index. Numerics Configuration..... Page 112 Reference ManualRosemount 848T October 2011. By continuing to browse our site you are agreeing to our Cookie Policy. Engineered with Emerson’s measurement validation diagnostic, this transmitter helps you predict onscale failures and avoid unnecessary shutdowns, increasing safety and productivity. By continuing to browse our site you are agreeing to our Cookie Policy. Additionally, the

fieldhardened enclosure allows for installation close to any process, even in hazardous areas. For personal and system safety, and for optimum product performance, make sure to thoroughly understand the contents before installing, using, or mainta ining this product.

http://www.diamondsinthemaking.com/content/3lcd-sony-projector-manual

The United S tates has two tollfree assistance numbers and one international number. Customer Central 18009999307 700 a.m. to 700 p.m. CST National Response Center 18006547768 24 hours a day Equipment service needs International 1952 9068888 The products described in this document are NOT designed for nuclea rqualified applications. Using nonnuclear qualified products in applicati ons that require nuclearqualified hardware or products may cause inaccurate readings. For information on Rosemount nu clearqualif ied products, contact an Emerson Process Management Sales Representative. Infor mation that potentially raises safety issues is i ndicated by a warning symbol . Please refer to the followi ng safety messages before performing an oper ation preceded by this symbol.Multiple temperature sensor types may be connected to each 848T transmitter. In addition, the 848T can accept 420 mA inputs. Th e enhanced measurem ent cap ability of the 848T allows it to communicate these varia bles to any F OUNDATION fieldbus host or configuration tool. Manual This manual is designed to assist in the installation, o peration, and maintenance of the Rosemount 848T T emperature T ransmitter.This center, available 24 hours a day, will as sist with any neede d information or materials. NOTE If a hazardous subst ance is identified, a Material Safety Data Sheet MSDS, required by la w to be ava ilable to peop le exposed to specific hazardous substances, must be included with the returned materials. Infor mation that potentially raises safety issues is i ndicated by a warning symbol . Please refer to the followi ng safety messages before performing an oper ation preceded by this symbol. W arnings MOUNTING The 848T is always mounted rem ote from the sensor assembly.Release the mounting clip.Pipe S tand Use the optional mountin g bracket opt ion code B6 to mount the 848T to a 2in.Use extreme caution when making contact with th e leads and terminals. NOTE Do not apply high volt age e.g.

https://www.flexcable.com/images/bowflex-xtreme-2-se-home-gym-assembly-manual.pdf

AC line voltage to the transmitter term inals. Abnormally high volt age can damage the u nit bus terminals are ra ted to 42.4 VDC. Figure 23. 848T Transmitter Field Wiring Connections The 848T transmitter is compatible with 2 or 3wir e RTD, thermocouple, Oh m, and millivolt sensor types. Figure 24 sh ows the correct input connections to the sensor terminals on the transmitter. The 848T can a lso accept inputs from analog devices using the optional ana log input connector. Figure 25 shows the correct input connectio ns to the analog input connector when in stalled on the transmitte r.If the transm itter is mounted re motely from a 3wire RTD, it will operate within specifications, without r eca libration, for lead wire resist ances of up to 60 ohms per lead equ ivalent to 6,000 feet of 20 A W G wire. If using a 2wire RTD, both RTD leads are in series with the sensor element, so error s can occur if the lead lengths e xceed one foot of 20 A WG wire. Compensation for this error is provid ed wh en using 3 wire RTDs. Thermocouple or Millivolt Input s Use appropriate thermo couple extension wire to connect the thermocouple to the transmitter. Make connections fo r millivolt inputs using copper wire. Use the following steps when installing the 848T with the analog connector 1. The 848T, when ordered with option code S0 02, comes with four analog connectors. Replace the standard co nnector w ith the ana log conne ctor on the desired channe ls. 2. Wire one or two an alog transmitters to the analo g connector according to Figure 25. Ther e is space available on the analog connector label for identification of the analog inpu ts. NOTE Power supply should be rated to suppor t the connected transmitters. 3. If the analog transmitters can co mmunicate using HART protocol, the analog connectors are supplied with the ability to switch in a 250 ohm resistor for HAR T communication see Figure 26.

http://finrusinvest-global.com/images/bowflex-xtreme-2-user-manual.pdf

One switch is supplied for each inpu t top switch for “A” inputs and bottom switch for “B” inputs. Setting the switc h in the “ON” position to the right byp asses the 250 ohm resi stor. T erminals are provided for each analog input to connect a Field Communicator for lo cal configuration. The DC power supply should provide power with less than 2% ripple. A fieldbus segm ent requires a power condition er to isolate the power supply filter and decouple the segment from other se gments att ached to the same power supply. All power to the transmitter is supplied ov er the signal wiring. Signal wiring should be shielded, twisted pair for best resu lts in electrically noisy environment s. Do not use unshielded signal wiring in ope n trays with power wiring or near heavy electr ical equipment. Use ordinary copper wire of sufficient size to ensure that the voltage across the transmitter power terminals does not go bel ow 9 VDC. The power terminals are polarity insensitive. T o p ow er t he tr an s mi tt er 1. Connect the power leads to the terminals marked “Bus,” as sh own in Figure 27. 2. T ighten the terminal screws to ensure adequa te contact. Howe ver, a transient protection option option code T1 is availabl e to protect the 848T against highenergy transients. The device must be properly gr ounded using the ground terminal see Fig ure 27. NOT USED SECURIT Y SIMULA TE ENABLE Connect Power Leads Here Ground required w ith T1 option Shielded Wire Each process installatio n has different requirement s for grounding. Use the grounding options recommended by the facility for the spec ific sensor type or begin with grounding optio n 1 most common. Option 2 1. Connect sensor wiring shields to the transmitter enclosure only if the enclosure is ground ed. 2. Ensure the sensor shields is elec trically isolated from surrounding fixtures that may be grounded. 3. Ground signal wiring shield a t the power supply end.

Sensor Wires Power Supply Shield gr ound point 848T Sensor Wires Power Supply Shield gr ound point s 848T Analog Device Inputs 1. Ground analog sign al wire at the po wer supply of the a nalog devices. 2. Ensure that the analog si gnal wire and the fieldbus signal wire shie lds are electrically isolated fro m the transmitter enclosure. 3. Do not connect the analog signal wire shield to the fieldbus signal wire shield. 4. Ground fieldbus signa l wire shield at the power supply end. T ransmitter Enclosure o ptional Ground the tran smitter in accord ance with local electr ical requireme nts. Sensor Wires Power Supply Shield ground points 848T Power Supply Shield ground points 848T Analog Device Analog Device Power Supply 420 mA loop F OUNDATION fieldbus bus Each 848T is equipped with a se curity switch that can be positioned “ON” to prevent the accident al or delib erate change of configuration dat a. This switch is located on the front side of the electronics module and is labeled SECURITY. See Figure 28 for switch location on the transmitter label. Simulate Enable The switch labeled SIMULA TE ENABLE is used in conj un ction with th e Analog Input AI and Multiple Analog In put MAI function blocks. This switc h is used to simulate temperature measur ement. Not Used The switch is not functional.The removable tag, provided with the transm itter, can aid in this process by linking the Device ID to its physical loc ation. The installer should note the p hysical location of the transmitter on both the upper an d lowe r location of the commissioning tag.Infor mation that potentially raises safety issues is i ndicated by a warning symbol . Please refer to the followi ng safety messages before performing an oper ation preceded by this symbol.Some will use Device Descriptions DDs and DD Methods to make confi guration and displaying o f data consistent acro ss host plat forms.

Unless otherwise specif ied, the 848T will be sh ipped with the following configuration default T able 31. S tandard Configuration Settings Refer to that systems document ation to perform configuration changes using a F OUNDATION fieldbus host or configu ration tool. T ransmitter Configuration The transmitter is ava ilable with the standard configurat ion setting. Custom Configuration Custom configurations are to be specified when ordering. Methods For F OUNDATION fieldbus host s or configuration tools that support device description DD methods, the re are two configuration methods available in the T ransducer block. If the F OUND ATION fieldbus host or configuration tool does not support DD me thods, refer to “Block Configuration” on pa ge 37 for information on how to modify sensor configuration paramete rs.Damping Use the following steps to configure th e

damping, which is located in the T ransducer Function Block. 1. Set Sensor Mode to Out of Service. 2. Change DAMPING to the desired filt er rate 0.0 to 32.0 seconds. 3. Set Sensor Mode to In Service. The higher the number of seconds between samples, the more emphasis put on process varia tion. 3. Select Deviation Limit from 0 to 10 unit s. If deviation limit is exceeded, a status event will be triggered. 4. Select Increasin g Limit. Sets the limit for in creasing rate of change. If limit is exceeded, a stat us event will be triggered. 5. Select Decreasing Limit. Set s the limit for decreasing rate of change. If limit is exceeded, a st atus event will be triggered. NOTE The decreasing limit selected is r equired to be a negative value. This thre shold is used to clear th e PV status. 7. Set S tatus Priority. This determi nes wh at happens wh en the specific limit has been exceeded. No Alert Ignores limit settings. Advisory Sets Advisory Plant W eb Alert, bu t does not do anything with PV status. W a rning Sets a Maintenance Plant Web Alert and set s PV status to uncert ain.

Failure Sets A Fa ilure Plant Web Alert and set s PV status to Bad. 8. Set mode to Enabled for spec ific sensor. COMMON CONFIGURATIONS FOR HIGH DENSITY APPLICATIONS For the application to work properly, configure the links between the function blocks and schedule th e order of th eir execution. The Graphical User Interface GUI provid ed by the F OUNDATION fieldbus host or configuration tool will allow easy configuration. The measurement strategies sh own in this s ection repr esent some of the common types of configurations av ailable in the 84 8T. Although the appearance of the GUI screens will vary fr om hos t to host, the configuration logic is the same. NOTE Please ensure that the ho st system or configuration tool is properly configured before downloading the transmitter configur ation. If configure d improperly, the F OUNDATION fieldbus host or configuration tool could overwrite the default transmitter configuration.Multiple errors may be shown.The first alert to become active will set the Active status in t he S tatus attribute. The format and r ange are controlled by the Fieldbus F OUNDATION. 42 DISTRIBUTOR Reserved for use as distributor ID. T ests are device specific. T able 32. Resource Block Parameters Number Parameter Description A bit on means that the correspond ing alarm conditi on is enabled and will be detected. A bit on means that the correspond ing alarm conditi on is enabled and will be detected. A bit on means that the corres ponding alarm condition is enabled and will be detected.When the resource block is in OOS, all blocks within the re source device are forced into OOS. In this mode, changes can be made to all configurable p arameters. The target mod e of a block may be restricted to one or more of the supported modes. The types of block error for the resource block are defined above. The Resource Block will act as a coor dinator for PlantWeb alerts. This implies that the device is in need of rep air and must be fixed immediately.

Below is a list of the failures with the highest priority first. Number Description 0 The priority of an alarm condition changes to 0 after the condition that caused the alarm is corrected. 1 An alarm condition with a priority of 1 is recognized by the system, but is not reported to the operator. 2 An alarm condition with a priority of 2 is reported to the operator, but does not require operator attention such as diagnostics and system alerts. 37 Alarm conditions of priority 3 to 7 are advisory alar ms of increasing priority. 815 Alarm conditions of priority 8 to 15 are critical alarms of increasing priority. Only the alarm with the highest priority will be displayed. This priority is hard coded within the device and is not user configurab le. If the condition is ig nored, the device will eventually fail.Only the condition wi th the highest priority will be displayed. This priority is hard coded within the de vice and is not user configurable. If the co ndition is ignored, the device will eventually fail. Advisory Alarms An advisory alarm indica tes informative conditions that do not have a direct impact on the devices primary fu nc tions. Below is a list of the advi sories with the highest priority first. NOTE Alarms are only prioritized if MultiBit Al ert s are disabled. If MBA is enabled, all alert s are visible. Alarm Priority Sensor 8 Degraded 1 Sensor 7 Degraded 2 Sensor 6 Degraded 3 Sensor 5 Degraded 4 Sensor 4 Degraded 5 Sensor 3 Degraded 6 Sensor 2 Degraded 7 Sensor 1 Degraded 8 Body T emperature Out of Ra nge 9 CJC Degraded 10 Alarm Priority PW A Simulate Active 1 Excessive Dev iation 2 Excessive Rate of Change 3 Only the advisory with the hig hest

priority will be displayed. This priority is hard coded wi thin the device and is not user configurable. Advisory PWA Simulate Active Disable simulation to return to process monitoring. If condition persists, replace the device.

Maintenance Body T emperatur e Out of Range V e rify the ambient temperature is w ithin operating limits.Failed Body T emperature Failure V e rify that the body temperature is within the operating limits of this device. If the problem persists, replace the device. Failed Electronics Failure Restart the device. Alarm T ype Active Event Recommended Action Each input has a channel assigned to it allowing an AI or MAI Function Bl ocks to be linked to that input. The channels for the 848T are as follows T able 38. Channel Definitions for the 848T Figure 31.Channe l outputs are not updated and th e status is set to Bad Out of Service for each chann el. The ta rget mode of a block may be restricted to one or more of the suppo rted modes. T ransd ucer Block Al arm Detection Alarms are not generated by the transd ucer block. By correctly h andling the status of the channel values, the down stream block AI or MAI will generate the necessary alarms for the measurement. T ransducer Block St atus Handling Normally, the status of the output channels reflect the st atus of the measurement value, the oper ating cond ition of the measurement electronics card, and any active a larm conditio ns. In a tra nsducer, PV reflec ts the value and status quality of th e output channels. Multiple errors may be shown. The cause of the aler t is entered in the subcode field. The first alert to become active will set the Active status in the S tatus attribute. F or a list of enumeration values, see FF902.T a ble 310. T ransduc er Block Param eters Number Parameter Description T a ble 310. T ransduc er Block Param eters Number Parameter Description This could be due to an overflow, data reasonableness. SENSOR Se nsor T ype and Connection. MSB is the sensor type and LSB is the connection. DAMPING Sampling Interval used to smooth output using a first order linear filter.

V alidation Config SubParamete r S tructure Sensor Calibration in the Sensor T ransducer Block If the F OUNDATION fieldbus configuration tool or host system d oes not su pport the use of DD methods for device configuration, th e following steps illustrate how to calibrate the sensor from the sensor tran sducer block NOTE Active calibrators should not b e used in conduction with RTDs on any multiple input temperature transmitter such as the 848T. This shouldn t exceed 10 seconds per sample, but currently there are no uppe r limits. DD limits the upper range to 10.Infor mation that potentially raises safety issues is i ndicated by a warning symbol . W arnings F OUNDATION FIELDBUS INFORMATION F OUNDATION fieldbus is an alldigit al, serial, twoway, multidrop communication protocol that interconne cts de vices such as transmitters and valve controllers.Unless requested otherwise, it is assigned a temporary address when ship ped from the factory. If there are two or more devices on a segment with the same address, the firs t device to star t up will use the assigned addre ss ex. Address 20. Each of the other devices will be given o ne of the four av ailable temporary addresses. If a temporary address is not available, the device will be unavailable until a temporary addr ess becomes available. Use the host system document ation to commission a device and assign a permanent addre ss.If a malfunction is susp ected, check for an extern al cause before performing the diagn ostics presented below. Sensor Check T o determine whether th e sensor is caus ing the malfunction, connect a sensor calibrator or simulator locally at the tr ansmitter. Consult an Emerson Process Management represent ative for additional temperature sensor and accessory assistance. The transmitter re quires between 9.0 and 32.0 VDC a t the terminals to operate with complete functionality. Check for wire short s, open circuits, and multiple grounds.

Resetting the Configuration REST ART There are two types o f restart s available in the Resource Block. The following section outlines the usage for each of these. For further info rmation, see REST ART in T ab le 32 on page 3 6. Rest art Processor cycling Performing a Rest art Processor has the same ef fect as removing power from the device and r eapplying power. Rest art with Defaults Performing a Rest art with Default s resets th e static p arameters for all of the blocks to their initial

state.Set the current link setting equal to the configured settings. Symptom Possible Causes Corrective Action Mode will not leave OOS T arget mode not set Set target mode to something other than OOS. Restart the device by setting REST ART to Processor. If the block error does not clea r, call the factory. Enable the report bit. Resource block The actual mode of the Resource b l ock is in OOS. See Resource Block Diagnostics for corrective action. T ransducer Block The actual mode of the Transducer Block is OOS.This option is inst alled at the factory for the Rosemount 848T and is not intended for field inst allation. Up date Time Approximately 1.5 second s to read all 8 inputs. Alarms The AI and ISEL function blocks allow the user to configure the alarms to HIHI, HI, LO, or LOLO with a variety of priority levels and hystere sis settings. Backup Link Active Scheduler LAS The transmitter is classifie d as a device link master, which means it can function as a Link Active Scheduler LAS if the current link master device fails or is removed from the segment. The host or other conf iguration to ol is used to download th e schedule for the application to the link master device. In the absence of a primar y link master, the transmitter will claim the LAS and provide permanent co ntrol for the H1 segment.

F OUNDATION fi eldbus Para meters Schedule Entries 20 Links 30 Virtual Communications Relationships VCR 20 When using the optional junction box, the transmitter can be mounted onto a p anel or a 2in.NPT fittings. Materials of Construction for Optional Junction Box Weight Environment al Ratings NEMA T ype 4X and IP66 with optional junction box.Vibrat ion Effect T ransmitters are tested to high pipeline vibration sp ecification per IEC 607701 1999 with no effect on performance.Input ranges and accu racy for these sensors will depend on the specific multipoint sens or chosen. For more information, cont act your local Emerson representative.The S tandard offering represents the most common options. Model Product Description 848T High Density T emperature Measurement Family T ransmitter Output Standa rd Stan da rd F F OUNDATION fieldbus digital signal inc ludes AI, MAI, and ISEL function blocks, and Backup Link Active Scheduler. Product Certifications 1 Rosemount Juncti on Box required. Standa rd Stan da rd I1 A TEX Intrinsic Safety No. I3 NEPSI Intrinsic Safety No. I4 TIIS Intrinsically Safety FISCO T ype 1a’ No. H4 TIIS Intrinsic Safety FISCO T ype 1b’ No. I5 2 FM Intrinsically Safe No. I6 2 CSA Intrinsically Safe No. I7 IECEx Intrinsic Safety No. IA A TEX FISCO Intrinsic Safety No. IE FM FISCO Int rinsicall y Safe No. IF 2 CSA FISCO Intrinsi cally Safe, Division 2 No. IG IECEx FISCO Intrinsic Safety No. N1 A TEX T ype n enclosure re quired Ye s. N5 FM Class I, Division 2, and Dust Ignitionproof enclosure r equired Ye s. N6 CSA Class I, Division 2 No. N7 IECEx T ype n enclosure required Ye s. NC A TEX T ype n Component Ex nA nL No 3. ND A TEX Dust enclosure requir ed Ye s. NJ IECEx T ype n Component Ex nA nL No 3. NK FM Class 1, Division 2 No.