Dsr 905 Manual

File Name: Dsr 905 Manual.pdf
Size: 2113 KB
Type: PDF, ePub, eBook
Category: Book
Uploaded: 7 May 2019, 21:43 PM
Rating: 4.6/5 from 781 votes.

Status: AVAILABLE

Last checked: 18 Minutes ago!

In order to read or download Dsr 905 Manual ebook, you need to create a FREE account.

Download Now!

eBook includes PDF, ePub and Kindle version

Book Descriptions:

We have made it easy for you to find a PDF Ebooks without any digging. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with Dsr 905 Manual . To get started finding Dsr 905 Manual , you are right to find our website which has a comprehensive collection of manuals listed.
Our library is the biggest of these that have literally hundreds of thousands of different products represented.

Book Descriptions:

Dsr 905 Manual

For a better experience, please enable JavaScript in your browser before proceeding. It may not display this or other websites correctly. You should upgrade or use an alternative browser. I tried for 3 days to wire these things and all I accomplished was erasing the programmed positions of all my favorite satellites. Ive reprogrammed them back in but I now realize I havent the foggiest idea what wires go from the receiver to the sidecar. I have only one, IN and not a Skew In and a Skew Out. I also have, on the back of the receiver, 2 heavier wires, black M1and red M2, which controls the East and West motor direction limits. Im assuming they stay wired to the receiver only. Can anyone help me Oldscorer I tried for 3 days to wire these things and all I accomplished was erasing the programmed positions of all my favorite satellites. Ive reprogrammed them back in but I now realize I havent the foggiest idea what wires go from the receiver to the sidecar. I have only one, IN and not a Skew In and a Skew Out. I also have, on the back of the receiver, 2 heavier wires, black M1and red M2, which controls the East and West motor direction limits. Im assuming they stay wired to the receiver only. Can anyone help me OldscorerI have never done a sidecar but between everyone here, you will get up and running. Hope the link helps Jeff The DSR905 is new and shipped with all the manuals. But the terminology has me stumped; ie The manual shows me where the wires for Skew in and Skew out go, but my receiver doesnt have anything labelled as such. I really dont mind spending a whole weekend trying to figure things out by trial and error; I just dont want to end up frying my equipment with my ignorance.The DSR905 is new and shipped with all the manuals. But the terminology has me stumped; ie The manual shows me where the wires for Skew in and Skew out go, but my receiver doesnt have anything labelled as such.http://chokmanee.com/userfiles/d845gvfn-motherboard-manual.xml

- **dsr 905 manual, dsr 905 manual pdf, dsr 905 manual download, dsr 905 manual free, dsr 905 manual instructions.**

I really dont mind spending a whole weekend trying to figure things out by trial and error; I just dont want to end up frying my equipment with my ignorance.Do you get the guide ability with the sidecar. Then it would really become interesting.The sidecar would have to have a way to tell the Old receiver with motor control to move the dish to G1 and the Sidecar would change the channel to 03. Keep us posted regards jeff Are these the skews Im suppose to be connecting. I quickly scanned the manual and it says my analog receiver will retain control over dish movement. Is that what you meant. Gosh, I cant wait until I get to try to progam this baby. I appreciate your help Bev Are these the skews Im suppose to be connecting. I quickly scanned the manual and it says my analog receiver will retain control over dish movement. Is that what you meant. Gosh, I cant wait until I get to try to progam this baby. I appreciate your help BevIt is downloaded at night if the dish is allowed to move to pick it up. Currently guide info comes from G1 ch 03. You would have a button on your remote says guide and if pressed, the guide screen would come up.does not sound as though the sidecar has it though. I will read your manual in the morning and repost jeff The 2 THICK Motor control wires stay with your current receiver. Of course your harness may have different colors or be hooked up differently. I have no idea why you would want that but whatever they call out. The sidecar should be an improvement tuner wise aside from giving you the virtual digital channels I have my old Toshiba receiver coming back this week.It was a great unit for its time.shame to see it relagated to becoming a dish positioner.but what a great display!!! Motorola is not really good at manuals so do not feel bad. The HDD200 Hidefinition adaptors manual is not too good either. Think of how good you will feel once it is completed!!!! Hope this helps a

little.http://www.jeannette-immobilien.at/userfiles/d845pt-manual.xml

If you wish, PM me and we can arrange to voice chat if need be. User Manual. Thank you for your selection of the 905UD radio modem. We trust itTo ensure your 905UD enjoys a long life,Page 2FCC Notice. This user's manual is for the ELPRO 905UD radio modem. This device complies with PartOperation is subject to the following two conditionsThis device must be operated as supplied by ELPRO Technologies Pty Ltd. Any changes orLtd. May void the user's authority to operate the device. End user products that have this device embedded must be supplied with nonstandardTechnologies. Please contact ELPRO Technologies for end user antenna and connectorNotices. Safety. Exposure to RF energy is an important safety consideration. The FCC has adopted a safetyAll equipment must be properly grounded for safe operations. All equipment should bePage 3User Manual. How to Use This Manual. To receive the maximum benefit from your 905UD product,Chapter Four Configuration details the configurations availableChapter Five Specifications details the features of the productChapter Six Troubleshooting will help if your system hasService conditions. The foldout sheet 905UD Installation Guide is an installationPage 4In other countries, refer to the relevant. Regulatory Authority. Check the Installation Guide for your country listing.Authority in your country on a nonprotection basis. Although all care is taken in theTo provide maximum surge andInstallation Guide.Equipment should carry clear markings to indicate remotePage 5User ManualUnit Reset. 29. Storing Configuration Parameters Write Registers. 29. Default Values Restore Factory Defaults. 29. SRegisters. 29. Reading Configuration Parameters. 34Bit Error Rate Test BER. 44Chapter One.

User ManualThe 905UD radio modem module has been designed to provide flexible and reliable radioRadio modems transmit serial data over a longThis manual should be read carefully to ensure that the modules areEach 905UD module will connect to a host device by RS232 or RS485 serial connection. Examples of host devices are PLC's, data loggers, intelligent transducers and computers. The 905UD unit can receive data from the host device and transmit this data by radio toThe other module will recreate the serial data andThe 905UD unit provides twowayThe 905UD radioThat is, a radio licence is not required for the 905UDSee Chapter Five Specifications for details. The units areRS232 is an electrical standard format for a full duplex pointtopoint serial connection. RS485 is an electrical standard format for aEach 905UDHowever differentThe 905UD has been designed to be flexible enough to cover a wide range of applications. The user is able to configure many different parameters such that the 905UD unit willBefore the radio modem can be used,Character type the 905UD will accept a variety of 7 or 8 data bit characters. Operating mode transparent mode or controlled mode. The operation of the 905UD radio modem is relatively simple. As data is received at theUp to 520 bytes of data can be. Page 8IntroductionBecause the radio data rate could be lessThe RS232 connection provides CTSThere are no data flow control signals for RS485. A radio channel cannot provide as secure a data channel as a wired connection. The 905UD uses a UHF radio channel with a very low level of natural or industrial noise, however thereThis function can be performed by either theThe modules may be configured by the user toIn transparent mode, it is assumed that the host devicesIn controlled mode, the 905UD units control the flow of data.

https://events.citeve.pt/chat-conversation/emergency-department-policies-and-procedures-manual

The default configuration of the 905UD modem is transparent mode the modules are setIn transparent mode, there is no control of the dataThis mode relies on the hostIt also relies on the host devices to include any addressingIn this mode, modules are not configured with a unit address. DataThe user may configure the 905UD modems to add errorThis feature provides additionalIf errorchecking isTransparent mode is suitable for a host device which is able to communicate on a multidropRS485 network. The serial messages from the PLC's already include PLC addressing and. Page 9Controlled Mode. In "controlled" mode, the flow of data is controlled by the 905UD units.

Each 905UD unit isThe source module will add an errorcheck 16 bit CRC toTheThe source moduleAn example of an application using controlledIn controlled mode, the destination addressHayes commands are a standard set of commands used with conventional telephonePage 10Repeater Units. A 905UD unit may be used as a repeater to retransmit radio messages. The purpose of aIn transparent mode, only one module perIn controlled mode, up to five repeaters may bePage 11User Manual. Chapter Two INSTALLATIONThe 905UD module is housed in an rugged aluminium case, suitable for DINrail mounting. Terminals will accept wires up to 2.5 sqmm in size. Normal 110240V mains supply should not be connected to any terminal of the 905UDBefore installing a new system, it is preferable to bench test the complete system. Configuration problems are easier to recognise when the system units are adjacent. Following installation, the most common problem is poor communications caused byAlternately, use an intermediate 905UD Module as a repeater. The foldout sheet 905UD Installation Guide provides an installation drawing appropriate toThe 905UD module will operate reliably over large distances. The distance which may beNote that theThe radio range for 9600.

Where it is not possible to achieve reliable communications between two 905UD modules,An aerial must be connected to each 905UD module using the BNC female connector at theTo achieve the maximum transmission distance, the aerials should be raised aboveBecause of theFor short distances, the modules will operate reliably withObstructions which are close to either aerial will haveFor example, aPage 12Installation. An aerial should be connected to the module via 50 ohm coaxial cable eg RG58 or RG213The higher the aerial is mounted, the greater theConnections between the aerial and coaxial cable should be carefully taped to preventWe recommend that theWhere aerials are mounted on elevated masts, the masts should be effectively earthed toAlthough the 905UD module is fitted with surge protection, additionalA unity gain dipole is the normal aerial for use on unlicensed channels. As it does not provideFor marginal radio paths, the following lengths are the recommended maximum for theRG58 10 metres. RG213 20 metres. Note that thisIf more than 20 metres ofDipole aerials should be mounted vertically, at least 1 metre away from a wall or mast.A 3 element Yagi aerial provides approx 4 dB of gain. This may be used to compensate forNote that these aerials should notYagi aerials are directional. That is, they have positive gain to the front of the aerial, butHence Yagi aerials should be installed with the centralAlso note that Yagi aerials normally have a drain hole on the foldedPage 13User Manual.

The Yagi aerials may be installed with the elements in a vertical plane vertically polarised orFor a two station installation, with both modulesIf there are more than twoYagi aerials should not be used where a module is receiving messages from more than oneAn omnidirectional aerials suchA 3dB collinear aerial may be used in the same way as a 3 element Yagi to compensate forThis type of aerial is generally used at a centralThe collinear aerial looks similar to the dipole, exceptPage 14Power Supply. The 905UD module may be powered by either a 12VDC or a 24VDC supply. The supply negative is connected to the “GND” terminal internally. The positive side of theThe DC supply may be a floating supply orThe 12V supply is suitable for an unregulated DC supply. Where battery backup is required,The power requirements of the 905UD units is 155mA at 12VDC or 100mA at 24VDC. TheThe serial port is a 9 pin DB9 female and provides for connection to a host device as well asThis port is internallyRS232 port. Communication is via standard RS232 signals. The 905UD is configured as. DCE equipment with the pinout detailed below. Page 15User Manual. DB9 Connector Pinout. Pin. Name. DirectionFunctionTransmit Data Serial Data OutputReceive Data Serial Data InputIf low power mode is selected, an inactive. DTR will also force the 905UD to low power mode.Data Set Ready always high when unit is powered on.Request to Send hardware flow controlClear to send hardware flow controlExample cable drawings for connection to a DTE host a PC or another DCE host orThese example are for transparent mode. Controlled modeThe RS485 port provides for communication between the 905UD unit and its host deviceUp to 32 devices may be

connected in each multidrop network. Note that the RS485 port is shared internally with the RS232 port make sure that the RS232Page 16Installation.

As the RS485 communication medium is shared, only one of the units in the system mayThus communication protocols based on the RS485 standardThe 905UD “holds off” for three character times afterRS485 is a balanced, differential standard but it is recommended that shielded, twisted pairAn RS485 network should beThe 905UD provides a digital output signal to indicate “communications OK” in controlledThe output will reset switch “off” if aIf the 905UD unit does not receive an acknowledgmentThe output is a FET output to common, rated at 30VDC 500 mA. Page 17User Manual. Chapter ThreeWhen power is initially connected to the 905UD module, the module will perform internalThe following table details the status of the indicating. LEDs on the front panel under normal operating conditions. LED Indicator. Condition. MeaningNormal Operation. Radio RX. GREEN flash. Radio receiving data. RED flash. Weak radio signal. Radio TX. Flash. Radio Transmitting. Serial RX. GREEN flash. Serial Port Receiving. RED flash. CTS low. GREEN continuously. Configuration Mode. Serial TX. GREEN flash. Serial Port TransmittingTransparent mode always on. Controlled modeCommunications failure or link notOther conditions indicating a fault are described in Chapter Six Troubleshooting. Low Power Operation. The 905UD may be forced to a low power condition where it switches off its receiver power consumption is reduced to approx 20% of normal. The low power condition will occurThe use of this low power operation may be applicable in remote locations where there is aIn this situation, the DTR signal from the hostThe 905UD unit will then operate normally untilPage 18OperationData input at the serial port is placed into the input buffer. This buffer will store 8Kbytes ofWhen the 905UD unit detects data in the input buffer, it initiates a radio message.

The radioThe message will also end if the input buffer becomesThe delay time is called the “tail time” and is configurable by theThe 905UD may be configured by the user to recognise the following types of characters. Data. Start. Stop. Bits. Bits. Bits. ParityMost applications will require the character type to be the same at each 905UDIf the input data is 7 data bits without parity, then theIf the input data is 7Data is output at theThe communications baud rates supported on both the RS232 serial port and the RS485Page 19Radio Data Rate. The data is transmitted by radio as direct modulated synchronous data at a rate betweenThe user must configure the radio data rate at each 905UDOn noisy radio channels, the range at 9600 baud will beA 40 msec leading sequence of alternating 1’s and 0’s provides the receiving unit withA system address is superimposed on each message to provide discriminationEach 905UD unit inA “frame flag” appears once at the beginning of each message, and once at the end ofAn “idle flag” may be used to allow the message to idle for a short period after eachThe tail time may be configured for between 0 and 2.55The RTS status of the source unit is included in the message. In controlled mode only,In controlled mode, unit addressing is included. An errorcheck 16 bit CRC may be configured by the user. Up to 520 bytes of data may be transmitted in a message the maximum message size isThe data consists of a sequence of 8 bit bytes. Start, stop and parity bits are not transmitted, but they are regenerated at the receiving unitA “transmit delay” time and a “receive delay” time may also be configured. After eachThe default time of the transmit delay 70 msec is selected for polling applications. If theThe user can reduce this transmitPage 20OperationIn transparent mode, radio messages are transmitted without unit addressing. Units do notEvery unit which receives the radioTransparent modeData received at the serial port is transmitted out of the radio port.

Data received from thePrior to transmitting, units will listen to the radioHost devices should provide a suitable protocol to ensure that error checking, handshakingThis mode ofOne 905UD unit may be configured as a repeater. This unit will not output data at its serialThe time taken to transmit a message isleadin system addrIf error checking is not configured at the receiving unit, data will start to be outputIf error checking isFor example, aThe time between transmissions is set by the transmit

and receive holdoff times configuredIn controlled mode, data is only transferred between two modules that is, a point to pointThere can also be up to five intermediate repeaters in the link. Each 905UD unit isTo establish a link, the master will transmit a special “connect” message. This initialIf the “slave” unit receives the initial message, and is notIf the master. Page 21User ManualWhen the connectionThe destination address may be configured two ways. Configuration enters an “autodial” address. The ATD command enters a “singledial”If an autodialIf a singledial address, the master unit will try toThe host must then issue the ATDThe autodial operation is similar to a fixed line modem, where the destination address isThe singledial operation is similar to a dialup modem. The 905UD will make a connectionIf the communications link fails forEither of the two modules at the end of the link can be the “master” unit the “master” unitOnce the communications channel has been established, the 905UD unit will accept inputCTS signal will be active when the input data buffer is not full, AND the RTS signal at theWhen a 905UD unit receives a radio message, it will check the system address andIf these are correct, it will return a. ACK acknowledgment message to the source unit.

If the system address or destinationIf the addresses are correct, butIf the source unit receives a NACK message, or does not receive any message within 1It will attempt to transmit the message up toIf the unit still does not receive an ACKIf the source module is the “master” unit, then it will immediately sendIf the source module was theDuring normal operation, if there has been no radio activity for a period called the “update”Page 22Operation. Establishing a Communications Link. Master Unit. Slave UnitNo. of bytesIf error checking is not configured at the receiving unit, data will start to be output approx. If error checking is configured, data will beFor example, a message with 20 bytesThe time between transmissions is set by the transmit and receive holdoff times configuredIntermediate Repeaters. Where intermediate repeaters are configured, each repeater will retransmit the messageWhen the destination address is reached, the destination modulePage 24Operation. If errorchecking is selected, then the destination module will only return a ACK if the errorIf the errorchecking function is not selected, then the destination module will return an ACK every timeEach repeater will retransmit the ACK or. NACK message until it is received by the source module. The source module will calculate a waiting time for the acknowledgment this time is basedIf the source module receives a NACK, or it does not receive an ACK within the waiting time,The 905UD will transmit the message up to fiveThe unsuccessful message will not be retransmitted andRepeater Communications. Successful. Unit A. Unit B. Unit C. Unit D. Source. Repeater. Repeater. Destination. TransmitReceiveRetransmitReceiveRetransmitReceive ACK. RetransmitPage 33User Manual. The module will automatically attempt to connect to the destination address. For example, to set the destination address to 18 with repeater addresses 2 and 8, the. If the destination address was to be 105 with no repeaters, the command would be.

In modes 6 and 7, the 405U will only connect if the DTR signal is high active. If the DTRIf low power mode is selectedTo connect to a remote module, use the “dial” commandThe module will respond with one of the following messagesRINGINGIf the destination address was to be 119 with no repeaters, the command would be ATD119. To cancel or “hangup” a connection, use the ATH command. The ATD and ATHFor example, ATHD119 this command also clears the previousHost devices are able to read the value of configuration parameters by using the ATSnRefer to the. Diagnostics section of this manual chapter 6 for a detailed listing of the test commandsThe command ATI will result In a response from the 405U module with the software versionPage 34Configuration. This command allows configuration of the character format and flow control used on theNote The value of this setting is also available via Sregister S9. This command allows configuration of the operating mode. The x value is the same as theNote The value of this setting is also available via Sregister S0.The following commands from the host control the responses of the 405U unit to the HayesNote the values of these settings are also available via Sregister S10.The 405U modules provide responses to the Hayes commands. The responses will beThe followingUser

ManualTransparent Mode. Extending a PLC NetworkSet the module to factory default settings. Set the system address to a random number. Set the serial data rate to 38400. Set the radio data rate to 9600. Set the character type to 7,1,2,even. Exit and save the configurationThe other default values for the other parameters will likely be OK. Repeater Configuration. Set the module to factory default settings. Set the radio data rate to 9600. Exit and save the configurationSet the module to factory default settings. Set the radio data rate to 9600. Set the character type to 7,1,2,even. Page 36Configuration. Exit and save the configurationControlled Mode.

Pointtopoint link with repeaters. Assume that default settings are used for data rates and character types.The only. Source. Repeater. Repeater. Destination. Apart from being a repeater in the 1 3 link, 100 is also in a separate link to 101. Set the module to factory default settings. Set the system address to a random number. Set the unit address to 1. Set the operating mode to controlled mode. Set the autodial address to 3 via 2, 100. Exit and save the configurationSet the unit address to 2. Set the operating mode to controlled mode. Exit and save the configurationSet the unit address to 3. Set the operating mode to controlled mode. Exit and save the configurationUser Manual. Set the module to factory default settings. Set the unit address to 100. Set the operating mode to controlled mode. Set the autodial address to 101. Exit and save the configurationSpecifications. Chapter FiveEMC specificationHousingPowdercoated, extrudedDIN rail mount. Terminal blocks. Removable. LED indication. OK operation, Serial RXTX, DCD active. Operating TemperatureSuitable for 2.5sqmm conductors. Power Supply. Nominal supplyDuring transmission 500mADuring transmission 300mARadio Transceiver. Single channelDirect frequency modulation. FrequencyTransmit powerSpurious emissions. User Manual. RX 1 in 300. A system with the minimum signal level will not stayA fade margin of at least 15 dB should be allowed for to take account of these factors. TheRadio Baud Rate. Minimum signal for BER. Recommended minimumIn areas experiencing radio interference or high background noise, reliable communicationsTo determine if interference is occurring,In a normal radioIf a reading above thisExample. RSSI Display press a key to exitMinimum signal level for reliable comms. RSSI Display press a key to exitWhen using directional aerials YAGI aerials this feature may be used to align the aerial inSetup the remoteA peak in signal level indicates optimum orientation ofPage 43Bit Error Rate Test BER.

The sending unit will repeatedly sendAn example of the receiving unit’s display is here. Test. ErrorsLevel. TotErr. TotTestTestErrorsExtraLevelTotErr. The total errors received during this test. TotTest . The total number of bits sent in 1000’s. Occasionally during testing, the following may be displayed. Test. Errors. Extra. Level. TotErr. TotTest. Bad Header. This indicated that the header information has been corrupted. Corrupted headers do notBER testing may also be performed in both directions simultaneously. In this case, a remotePage 44Warranty and Service. We are pleased that you have purchased this product. Your purchase is guaranteed againstThis warranty does not extend to. Failures caused by the operation of the equipment outside the particular productsAgent. Full product specifications and maintenance instructions are available from your Service. Agent, your source of purchase, or from the master distributor in your country upon requestIn the unlikely event of your purchase being faulty, your warranty extends to free repair orThis warranty does not indemnify the purchaser of products for any consequential claim forShould you wish to make a warranty claim, or obtain service, please forward the module toFor details of authorised. Service Agents, contact your sales distributor. Page 45Appendix A. User Manual. Switch ConfigurationIn order to configure the 405U unit, or to change the configuration, the unit must be placedWhen in this mode, the unit will not operate as transparent orModule configuration may be performed using the onboard miniature DIP switches or fromEach module within the one network must have the same systemTo simplify matters, the system address may be just an arbitrary pattern of off and onThis informationConfiguration recordThese sheets should be used to assist in planningEntering a system address puts the 405U in Configuration ModeMake sure thePress the red button for approx. 3The Serial RX LED will indicate GREENSwitch Configuration.

Once the module is in configuration mode, transparent or controlled mode may be selected. This is achieved by entering in another switch pattern. If transparent mode is selected, noThe default configuration is the configuration set in the factory. When you receive newThe default configuration is transparent mode. The serial ports will be set up for a byte format of 8 data bits, 1Further details of default settings are included in Appendix ATo select transparent mode the following switch pattern is entered after the system addressThe operating mode will be set to mode 4 Transparent mode without error check. Refer toIn controlled mode, each module within a network must be configured with an individual unitAddresses may be in the range 1 toThis address is coded in binaryTo configure controlled mode, switch patterns are entered consecutively with the moduleThese switch patternsIf more than one repeater is used inUp to five repeater addresses may be entered. If onlyIf three are used, thenThe destination address is always the lastAfter the destination address is entered, a switch patternThe module then exits configuration mode. Page 47User Manual. Note that repeater and destination addresses are only entered for the “master” unitFor modules which will justFor these modules, enter the exitTo select controlled mode the following switch pattern is entered after the system addressThe operating mode will be set to Controlled Mode with ErrorChecking mode 7 refer to. Example. Source. Repeater. Repeater. Destination. Apart from being a repeater in the 1 3 link, 100 is also in a separate link to 101System address 100 1001 0001 0010.Switch ConfigurationSystem address 100100100010010.Switch ConfigurationConfiguration parameters may be configured or changed at any time by entering theEach parameter has a default value which is set in the factory. All of the parameters do notEach switch entry will be of the following patternOperating Mode. Mode. Value. Option. Connect.