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### **Book Descriptions:**

## **Dittel Fsg 5 Manual**

If anything is missing or damaged, contact the dealer from whom you purchased the camera. Digital camera Strap FSG 90 System Airband Transceiver Page 2 November 2000 W. Dittel GmbH WARRANTY COPYRIGHT SERVICE INFORMATION Warranty The details and data in this operators manual correspond to the respective state of technology on the day of printing. PARTICULAR REMARKS TO FSG 90X TRANSMITTER MODULATION. 15. 3.5 Manual as a RECORD OF REVISIONS. Revision. Dittel. Reason Click and View Funke Avionics Walter Dittel F10003 Compatible Items, Primary or OEM Accessories, Options Dittel FSG 71M 760 CHANNEL VHF COM AIRBAND TRANSCEIVER In mid2016, TQ took over the avionics branch of Dittel Avionik, Landsberg am Lech. Download the manual. Development of momentfree balancing heads and more compact designs. 2000 Intr. Before installing and operating the transceiver, Please observe the Safety Information! Keep for further use! Document No. ArticleNo. Date of IssueAvionics DivisionAirband Transceiver. W. Dittel GmbH. Warranty Copyright Service. Warranty. The details and data in this operators manual correspond to the respectiveWe reserve our right to changeWalter Dittel GmbH takes no guarantee for these documents with respect toWarrantor carry the standard warranty 12 month of the manufacturerThis warranty does not cover equipment which has beenThis warranty shall not extend to incidental or consequential damages arisingCopyright 1998 Walter Dittel GmbH. All rights reserved. This document contains proprietary information and suchWalter Dittel GmbH, Luftfahrtgeraetebau, D86899 Landsberg am Lech. Germany. In this document no mention is made of patents, trademark rights, or otherThe absenceService. The information in this Operators Manual does not profess to include all the Should any unusual problem arise or further information be desired, pleaseD86899 Landsberg am Lech, Germany. Subject to technical changes. Page. Printed in GermanyTable of Content. W. Dittel GmbH. Table of

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Page. Warranty Copyright Service. 2. Table of Content. 3. List of Illustrations. 5. Abbreviations. 6. Section 1, Safety Information. 7Section 2, General Description. 9Section 3, Installation. 17Compass deviation. 20. Antenna installation. 23. Airborne wiring. 24General recommendations. 24. Microphone Connection. 28. Intercom IC. 28. AF External Operation. 29. Lighting the Frequency Display. 29. Connection to a 28 Vdc airborne system. 30. Postinstallation Check. 30Ground checks with engine running. 30. November 2000. PageTable of Content. W. Dittel GmbH. Table of Content. Page. Section 4, Functional Description. 33Section 5, Setup Procedure. 39Adjusting the Intercom volume. 42. Adjusting the Sidetone volume. 43. Adjusting the headset volume. 43. Deleting occupied channel memories. 44. Selecting CHANNEL MODE ONLY or NO RESTRICTION. 45. Entering a password. 46. Reset. 47. Section 6, Operating Instruction. 49Page. November 2000Table of Content. W. Dittel GmbH. Table of Content. Page. Appendix A, Technical Summary. 57. A1 General. 57. A2 Dimensions, Weight, Fuses. 58. A3 Approvals. 58. A4 Receiver Characteristics. 59. A5 Transmitter Characteristics. 61. Appendix B, Environmental Performance Classification. 62. Appendix C, ICAO FrequencyChannel pairing plan for combined. Appendix D, Certificates. 64. List of Illustrations. Fig. PageDeviation of a compass by an operating FSG 90FX, dependent onFSG 90FX, Dimensions, Installation Drawing. 21Hookup Diagram using wire harness F10189, 12 dynamic microphones. 25. Hookup Diagram using wire harness F10190, Operators Controls and Indicators. 33. November 2000. PageAbbreviations. W. Dittel GmbH. Abbreviations. AircraftArticle Number DITTELNanowatt 109Ah.

Ampere hourAssy. AssemblyPicowatt 1012Counterclockwise turn left Effective value root meanClockwise turn right DecibelDiameter. RxD. Receive dataSignaltoNoise RatioTxD. Transmit dataVdc. Volts, direct currentWatt. Ohm. Degrees Centigrade.http://www.harteron.ee/userfiles/canon-eos-400d-digital-camera-manual.xml

Degrees FahrenheitAcceleration due to gravityHz. HertzKilohertzModulationMilliamperesMHz. MegahertzMilliwatt. Page. November 2000W. Dittel GmbH. Section 1. Safety Information. Every radio, when transmitting, radiates energy into the atmosphere that may, underAll users of our radios should beDo not operate this radio in an explosive atmosphere petroleum fuels, During normal use, the radio will subject you to radio frequency energy substantiallyTO ENSURE PERSONAL SAFETY, please observe the following simple rulesAlways operate. Assure appropriateIt should also be noticed that the use of aRegulations in certain countries. Transmit and receiveIncreasing speaking levels while the lips are facing the November 2000. PageW. Dittel GmbHTherefore, observe while transmitting the This TX symbol must disappear After 2 minutes continuous TX the builtin transmit timeThen, the whole display warns by continuous flashing. Refer to appropriate hints inInvestigate the cause. In this manual the following symbols are usedFailing to observe the noteFailing to observe the note mayFailing to observe the note. Page. November 2000W. Dittel GmbH. Section 2Introduction. This installation and operating manual IM 034.00 contains instructions and descriptionsDittel GmbH, Luftfahrtgeraetebau, D86899 Landsberg, Germany. The maintenance manual MRM 034.00 contains detailed circuit description, repairThis manual refers to 2 out of 8 models available up to now. The equipment is well suited for operation in powered aircraft and helicopter withUltra low power consumption in conjunction with extremely wide DC supply voltageNovember 2000. PageBrief Description. Both radios out of the FSG 90F System are miniaturized, lightweight, panelmountedCase dimensions of all models will fit into a standard ARINC NORM rectangular openingDepth includingAll control and display elements are located on the front panel.

Connections to the SETUP information are all indicated at a twoline Liquid Crystal Display LCD, can beThree display modes are user selectable. Active channel name or frequency, associated preset channel. With the Dual Mode models FSG 90F and FSG 90FH1, up to 99 channel memories inAfter change to the otherPreset channel memories remain available also after manual or automatic poweroff. The nonvolatile channel memories of the FSG 90FX can easily reprogrammed alsoDeleting channel memories is only possible during SETUP. For ground applications, limitation to use preset channels only can be determined inBoth Transmit and Receive use the same digital frequency synthesizer and oneThe dual Superhet receiver offers very high immunity against inband and outofbandAn audio low pass filter for areas using Climax operation in 25 kHz spacing isThe solid state transmitter is wideband tuned from 118 to 137 MHz and delivers at leastPageW. Dittel GmbHA keyed transmitter is indicated by a transmit symbol at the LC display. Two independent microphone inputs separate pins allow universal accessoryDynamic microphones. The microphone inputs may also be continuously activated. This allows during ReceiveA separate AF input allows interconnection of external audio sources especially inThis external. AF OFF function may be selected in SETUP. This reduces the standby currentIn aircraft without onboard electric power generation system UL, Glider etc., operationThe DC supply voltage is monitored continuously while the radio is ON. When supplyBelow 8.5 to 9.5 Vdc, the FSG 90FX turns OFF itself automatically, and will resumeA voice processor is incorporated to achieve identical acoustic voice quality during. Transmit and Receive, as well as Audio Leveling in Receive, and in addition preventsUsual testing employsThe radios are equipped with a time out timer. This avoids blocked channel after 2Should the malfunction continue the.

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FSG 90FX is ready for another 2 minutes transmission period when turning OFF and. ON again e.g.

for emergency transmissions. The transmitter blocking feature avoids transmission on a busy channel. TransmitterNovember 2000. PageSystem and Type Approval InformationThis also includes Immunity according to ICAO ANNEX 10 against FM Broadcast. Interference. This also includes fulfillment of specific audio filtering required in areas with CLIMAXReg TP No. A132937J, stringent German Type Approval requirements Reg TPDFS Deutsche Flugsicherung No.BZT No. B132705J, CE Conformity, PageW. Dittel GmbHDepending on national regulations, Authorities, using suitable application forms. Description. Walter Dittel. Article number. Operation manual, Operating instructions, Warranty card to coverPageDescription. Page. W. Dittel GmbH. Article no. Connector kit, SUBD 25pin, incl.W. Dittel GmbHTechnology demand after installation completion proper acousticsTherefore, please do not use low performance acoustics accessories.Essential requirement isOther grounds for. DC input and output, speaker, phone, PTT and external AF may beSimilar requirements are applicable for headphone characteristics. Verify this effects possibleNovember 2000. PageW. Dittel GmbHW. Dittel GmbH. Section 3General. This section contains instructions and suggestions to be considered before installing theClose adherence to these suggestions will assureInformation in this section are intended for certified avionics shops only. Work such asIt is the responsibility of thoseFAATSO standards.

If not within the FAATSO standards, the articleUnpack the equipment carefully and inspect each item for evidence of damage incurredIf a damage claim must be filed, save the shipping container and all packing materials to the claim should be filed with the transportation company as If a damage is noted after the first test, notify the transportation company in writing withA copy of such a claim including all information from the type label is to be forwardedBefore installing the radio into an aircraft or vehicle, a short but comprehensiveFSG 90FH1 set supply to 14.0 Vdc at radio input terminals. Turn ON the radio with. Switch OFF the Squelch push SQ button. On all channels within 118. The squelch threshold depending onNovember 2000. PageW. Dittel GmbHWith 100 mV rms input, the transmitter shall achieve more than 70% AM. Increase AFDynamic Microphone Input. With some 1 mV rms input, the transmitter shall achieve more than 70% AM dependingIncrease AF input to 10 mV rms and observe modulationFor the combined 8.33 kHz and 25 kHz channel spacing airband radio technology, PROCESSOR, which is matched best to meet the requirements of the particularThis does however referIt will be therefore higher than the usual 2%. 10% sineSuch measurementsPageW. Dittel GmbH. Counter. Analyzer. Dummy load, Analyzer. Generator. AF Millivolt. Meter. Audio MicDynamic Microphone LO. AF External. Loudspeaker OUT. Power Ground. Headphone HI OUT. Microphone GND. Pushto Talk Switch. Intercom. Display Lighting HI. Display Lighting LO. Power Ground. Headphone LO OUT. Amp Mic. Dyn. Mic open. Amp Mic. Audio MicAudio Gen. Audio. Generator. EquivalentSpeaker 2200. AF Phone. Headphone 4 600. AF Speaker. Scope. Distortion. Analyzer and. Millivolt Meter. DO NOT wire otherPower SupplyDynamic Microphone LO. AF External. Loudspeaker OUT. Power Ground. Headphone HI OUT. Microphone GND. Pushto Talk Switch. Intercom. Display Lighting HI. Display Lighting LO. Power Ground. Headphone LO OUTAudio Mic. Dyn. Mic open.

Amp Mic. Audio MicDyn. Mic Audio Gen. EquivalentSpeaker 2200. Headphone 4 600. Audio. Phone. Audio Speaker. Power Supply. DO NOT wire otherFig. 31. November 2000. FSG 90F System. Test Setup. PageMechanical InstallationAny radio installation into an aircraft shall be coordinated with both, the licensedCertifying the aircraft installation may be subject to specific National Regulations.Fixing is made by four DZUS fasteners ARINC. NORM SIZE. All dimensions to install the FSG 90FX refer to Figure 33. For installationIf there is no suitable cutout, one can be made following the dimensions given in FigureSelect a radio location distant to heat sources. All equipment controls shall be readilyCompass Deviation. Distance. Compass. DeviationW. Dittel GmbHW. Dittel GmbHPanel. Flat aluminiumInstallation of the Fastener Strip. PageW. Dittel GmbHYour radio FSG 90FX is only as good as the antenna! For operation, a vertical polarized 50 Ohm broadband aircraft COM antenna is required. The antenna must be able to radiate RF energy evenly and omnidirectional. It would be the best toIn order to achieve best results into allThe antenna is mounted vertically as possible on or under the fuselage. LocationCOM antennas is sufficient. The electrical contact shall remain continuouslyF10057, is suitable. Installation is made best duringA installation drawing is available on request. IMPORTANT Carbon fiber is conducting and may shield the antenna! Make sure, thatAC currents, and distant to any aircraft controls. A whip antenna is tested for low resistive contact betweenSolder joints shall be supported byCable connector case mounting shall not clamp orFor 6 Watt models, we suggest a 3.15 Amp. quick acting fuseFor 10 Watt models suffix "H1, we suggestWithout proper fuseIn transmit mode, the operator may even be facedSlight improvement may bePerhaps, short but bulky grounding contacts between allFurther measures to improve RF immunity may be obtained from variometerPageW. Dittel GmbHAntenna cable.

Antenna. Headphone HI out. Headphone LO out. AF External. Dynamic Microphone HI. Dynamic Microphone LO. IntercomDisplay Lighting LO. Power Ground. Microphone GND. RX Signal. AF Sum. PTT Key. AF Modem outTxD. Switched 13.3 Vdc OUT. Power GroundTo connect a 2PTT key or a 2DynamicDimmer or. Lighting switchHeadphoneSupply. LeadCalcium. BatteryHeadset or dynamicFSG 90F SystemW. Dittel GmbHAntenna. INTERCOMSwitch. Headphone HI out. Headphone LO out. AF External. Dynamic Microphone HI. Dynamic Microphone LO. IntercomDisplay Lighting LO. Power Ground. Microphone GND. RX Signal. AF Sum. PTT Switch. AF Modem outTxD. Switched 13.3 Vdc OUT. Power GroundTo connect a 2PTT switch or aDynamic. MicrophoneDimmer or lightingHeadphoneSupply. LeadCalcium. Battery. Headset or handheld dynamicPTT switchIntercom operation requires a microphone which provides audio OUT with the PTT keyW. Dittel GmbHHeadphone LO out. AF External. Dynamic Microphone HI. Dynamic Microphone LO. IntercomDisplay Lighting LO. Power Ground. Microphone GND. RX Signal. AF Sum. PTT Switch. AF Modem outTxD. Switched 13.3 Vdc OUT. Power Ground. Audio OUT to Audio PanelAntenna cable. AntennaHeadphone. JackMicrophone. JackHeadphone Plug PJ055. Microphone. JackPTT switch. Copilot. Headphone. Copilot. PTT switch. Microphone Plug. PTT switchJackMicrophone PlugHeadphoneUnless otherwise noted all Power Grounds are airframe grounds. Intercom operation requires a microphone which provides audio OUT with the PTT kevIntercom operation requires a selector switch, double pole, double throw. Terminate audio shields at one end only. If more than one AF source, isolation resistors 470 Ohm shall be installed. Fuse 3.15 Amp, guick acting, or circuit breaker 3 Amp.FSG 90F SystemW. Dittel GmbHIndependent of each other, almost any nonamplified dynamic microphone, or amplified. Electret or amplified dynamic or carbon standard microphones can be connected to the. FSG 90F System, without internal jumper setting or soldering.

Avoid any ground loop inUp to two IDENTICAL microphones for pilot and copilot can be operated in parallelHowever, for microphones with less than 30 Ohms, it mayThe associated microphone ground shield for dynamic microphones must beDC input or DC output, AF input and AF output like speaker, phone, PTT and external. Audio. In this context, due to the extremely wide mike input level adjustment range, it isThis is especiallyIntercom is suitable for twin seater aircraft with noisy cockpit. Intercom as well as radioOFF by the PTT function. Keying the mike audio may cause awful cracks, depending onTo control the intercom capability, aircraft radio wiring must have a twopole toggleThe intercom switch disconnects the loudspeakerSimultaneously, pin 7 of the 25pole connectorDuring receive, while IC is ON, both the IC loudness and external audio volume areReceiving volume is set on the FSG 90FX front panel VOL, while intercom volumePageW. Dittel GmbH. Two separate audio outputs are provided. The speaker output pin 1 can continuouslyWhen no speaker is installed, this Pin 1 may remain not connected, no spare load isThe AF external input pin 4 may be connected to any external selectable audio outputHigher AF input may cause audio distortion. External AF will be audible only in ReceiveDuring transmit, the external AF input is

disabled. Continuous interconnection of an external audio sources will be suitable especially inThen the NAV headphone output may beThis allows in addition to the receiving and intercom function also the simultaneousInterconnection of more than one external audio source requires additional external. The individual audio volume is set directly at the particular external equipment.

The 30 mA current saving inTo achieve in External Audio operation the maximum FSG 90FX AF output power, aInterconnecting AF wiring must use shielded wires in order to avoid interference from possible magnetic interference coupling shall be especially The FSG 90FX includes a display which can be backlit. Pin 23 may be connectedPageW. Dittel GmbHInterconnection of the FSG 90FX transceivers to a 28 Vdc supply requires a capableFor lighting interconnection refer to Section 3.5.6. Verification after installation completion. After installing the unit, check all aircraft control movements to be sure no electricalAll aircraft and radio functions shall be tested afterThis must be performed by an Authorized Aircraft Electronics Inspector. Testing of antenna matching between the FSG 90FX antenna socket BNC and the. BNC antenna cable connector is required, using a suitable 50 Ohm VHF ReflectometerThe VSWR must be less than 3 1 over the full frequency range, tested at least in 1. MHz steps reflected power shall be less than 25% of the forward RF power output. IfIn order to optimize radio range, it is suggested to care for an VSWR of less than 2 1After completion of the antenna matching measurements, perform the following testSETUP refer to Section 5. This avoidsIt must be ensured that the aircrafts electrical DC system voltage at the FSG 90FXBattery only supplied systems operate from 10 to 16.5 Vdc. Such testing requires With cruising RPM, cabin noiseInstead, loud and clear communications shallThe microphone shall be in both transmit and intercom mode placed right at the lips inSpeak loud and. PagePDF Version 1.3. Linearized No. Create Date 20010914 090358. Author Administrator. Producer Acrobat PDFWriter 4.0 fur Windows NT. Page Count 30. Please upgrade to a newer version or try a different browser. Since then, we have become one of the UKs leading suppliers for light aviation equipment.

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