

File Name: cooper 4c recloser manual.pdf

Size: 4254 KB

Type: PDF, ePub, eBook

Category: Book

Uploaded: 17 May 2019, 22:43 PM

Rating: 4.6/5 from 831 votes.

Status: AVAILABLE

Last checked: 5 Minutes ago!

In order to read or download cooper 4c recloser manual ebook, you need to create a FREE account.

[**Download Now!**](#)

eBook includes PDF, ePub and Kindle version

[Register a free 1 month Trial Account.](#)

[Download as many books as you like \(Personal use\)](#)

[Cancel the membership at any time if not satisfied.](#)

[Join Over 80000 Happy Readers](#)

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 cooper 4c recloser manual . To get started finding cooper 4c recloser 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:

cooper 4c recloser manual

Reclosers
Kyle® Form 4C Recloser Control
Front Panel Replacement Kit KME4-701
Installation Instructions

COOPER Power Systems
Service Information
S280-77-13



Figure 1.
Kyle® Type Form 4C Recloser Control

Contents

Safety Information	2	Installation	4
Safety Instructions	2	Application of New Control Labels	4
Hazard Statement Definitions	2	Removal of Front Panel Assembly	5
Product Information	3	Installation of Control Panel	6
Introduction	3	Programming and Testing	7
Description	3	Troubleshooting	7

Both power supply assemblies are comprised of a power.S280771For Serial Number 232001 and above 2 Kyle Form 4C MicroprocessorBased Recloser Control Description, Installation and Operation Instructions The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe operation of the equipment described. Only competent technicians who are familiar with this equipment should install, operate, and service it. A competent technician has these qualifications Is thoroughly familiar with these instructions. Is trained in industry accepted high and low voltage safe operating practices and procedures. Is trained and authorized to energize, deenergize, clear, and ground power distribution equipment. Is trained in the care and use of protective equipment such as flash clothing, safety glasses, faceshield, hard hat, rubber gloves, hotstick, etc. Following is important safety information. For safe installation and operation of this equipment, be sure to read and understand all cautions and warnings. Safety Instructions Following are general caution and warning statements that apply to this equipment. Additional statements, related to specific tasks and procedures, are located throughout the manual. SAFETY INFORMATION SAFETY FOR LIFE Cooper Power Systems products meet or exceed all applicable industry standards relating to product safety. We actively promote safe practices in the use and maintenance of our products through our service literature, instructional training programs, and the continuous efforts of all Cooper Power Systems employees involved in product design, manufacture, marketing, and service. We strongly urge that you always follow all locally approved safety procedures and safety instructions when working around high voltage lines and equipment and support our Safety For Life mission. !SAFETYFOR LIFE !SAFETYFOR LIFE WARNING This equipment is not intended to protect human life. <http://cpils.com/userfiles/fic-az31-motherboard-manual.xml>

- cooper form 4c recloser manual, cooper 4c recloser manual, cooper 4c recloser

manual pdf, cooper 4c recloser manual download, cooper 4c recloser manual instructions, cooper 4c recloser manual diagram, cooper form 4c recloser manual.



Figure 1.
 Kyle® Type Form 4C Recloser Control

Contents

Safety Information	2	Installation	4
Safety Instructions	2	Application of New Control Labels	4
Hazard Statement Definitions	2	Removal of Front Panel Assembly	5
Product Information	3	Installation of Control Panel	6
Introduction	3	Programming and Testing	7
Description	3	Troubleshooting	7

Follow all locally approved procedures and safety practices when installing or operating this equipment. Failure to comply can result in death, severe personal injury and equipment damage. G102.1 ! DANGER Hazardous voltage. Contact with hazardous voltage will cause death or severe personal injury. Follow all locally approved safety procedures when working around high and low voltage lines and equipment. G103.3 ! WARNING Before installing, operating, maintaining, or testing this equipment, carefully read and understand the contents of this manual. Improper operation, handling or maintenance can result in death, severe personal injury, and equipment damage. G101.0 ! WARNING Power distribution equipment must be properly selected for the intended application. It must be installed and serviced by competent personnel who have been trained and understand proper safety procedures. These instructions are written for such personnel and are not a substitute for adequate training and experience in safety procedures. Failure to properly select, install, or maintain power distribution equipment can result in death, severe personal injury, and equipment damage. G122.2 ! This manual may contain four types of hazard statements DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in equipment damage only. !! Hazard Statement Definitions. Introduction Service Information S280771 provides installation and operating instructions for the Kyle Form 4C microprocessor based recloser control. Refer to Service Information S280774 Form 4C Recloser Control Programming Guide for additional information. <http://eczanemuhendisleri.com/userfiles/fic-az11-manual.xml>

Reclosers



Kyle® Form 4C Recloser Control
Front Panel Replacement Kit KME4-701
Installation Instructions

Service Information
S280-77-13



Figure 1.
Kyle® Type Form 4C Recloser Control

Contents

Safety Information	2	Installation	4
Safety Instructions	2	Application of New Control Labels	4
Hazard Statement Definitions	2	Removal of Front Panel Assembly	5
Product Information	3	Installation of Control Panel	6
Introduction	3	Programming and Testing	7
Description	3	Troubleshooting	7

Read this Manual FirstRead and understand the contents of this manual and follow all locally approved procedures and safety practices before installing or operating this equipment. Additional Information These instructions cannot cover all details or variations in the equipment, procedures, or process described, nor to provide directions for meeting every possible contingency during installation, operation, or maintenance. For additional information, contact your Cooper Power Systems representative. ANSI Standards Kyle reclosers are designed and tested in accordance with the following ANSI Standards C37.60 and C37.85 and ANSI Guide C37.61. Quality Standards ISO 90012000 Certified Quality Management System Acceptance and Initial Inspection Each Form 4C control is completely assembled, tested, and inspected at the factory. It is carefully calibrated, adjusted and in good condition when accepted by the carrier for shipment. Upon receipt, inspect the carton for signs of damage. Unpack the control and inspect it thoroughly for damage incurred during shipment. If damage is discovered, file a claim with the carrier immediately. Handling and Storage Be careful during handling and storage of the control to minimize the possibility of damage. If the control is to be stored for any length of time prior to installation, provide a clean, dry storage area. If storage is in a humid atmosphere, make provisions to keep the control circuitry energized. Note To energize the control, apply ac power to the ac supply input terminal block located in the lower right hand corner of the back panel of the control cabinet. Refer to the Customer Connection for AC Power section in this manual. Control Battery Storage and Charging Temperature has an effect on battery life. Sealed lead acid batteries should be stored, fully charged, at room temperature. Never store lead acid batteries at temperatures exceeding 47C 117F. MET electronic recloser control tester operating instructions COOPER OWER.

Only competent technicians who are familiar with this equipment should install, operate, and service it. Is trained in the care and use of protective equipment such as flash clothing, safety glasses, face shield, hard hat, rubber gloves, hot stick, etc. Additional statements, related to specific tasks and procedures, are located throughout the manual. SAFETY INFORMATION WARNING This equipment is not intended to protect human life. Follow all locally approved procedures and safety practices when installing or operating this equipment. Failure to comply can result in death, severe personal injury, and equipment damage. G102.1 ! DANGER Hazardous voltage. Follow all locally approved safety procedures when working around high and low voltage lines and equipment. G103.3 !

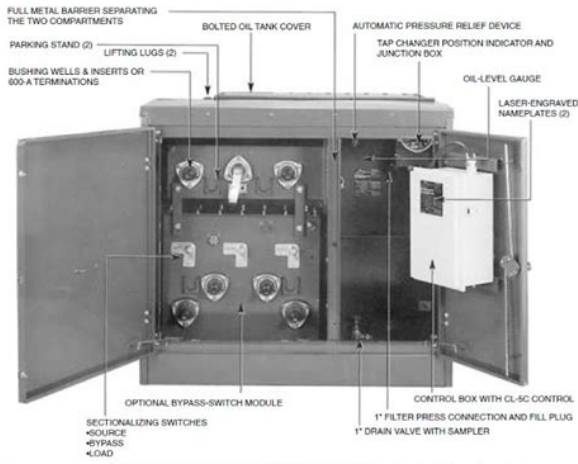
WARNING Before installing, operating, maintaining, or testing this equipment, carefully read and understand the contents of this manual. Improper operation, handling or maintenance can result in death, severe personal injury, and equipment damage. G101.0 ! WARNING Power distribution equipment must be selected for the intended application. It must be installed and serviced by competent personnel who have been trained and understand proper safety procedures. These instructions are written for such personnel and are not a substitute for adequate training and experience in safety procedures. Failure to properly select, install, or maintain this equipment can result in death, severe personal injury, and equipment damage. G122.2 ! SAFETY FOR LIFE Cooper Power Systems products meet or exceed all applicable industry standards relating to product safety. We strongly urge that you always follow all locally approved safety procedures and safety instructions when working around high voltage lines and equipment and support our Safety For Life mission. ! SAFETY FOR LIFE !

<http://ninethreefox.com/?q=node/14609>

SAFETY FOR LIFE This manual may contain four types of hazard statements DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. Introduction Service Information S2807713 provides instructions for replacing the front panel of the Form 4C Recloser Control. Before installing this kit, carefully read and understand the contents of this manual. Description The kit includes the parts necessary to replace the front panel of the Form 4C control. Review ALL steps in this publication before installing the enclosed kit. In addition, refer to the included Form 4C Service Information S280771 before the control is placed back into service. Service Information S280771 provides control operation, maintenance instructions and testing procedures for Form 4C Microprocessor Based Recloser Control. The parts included in the Form 4C Front Panel Kit are listed in Table 1. For installation of the kit, the following tools are required. Note The view may differ slightly for different revisions of Form 4C controls. S2807713 3 ! SAFETY FOR LIFE PRODUCT INFORMATION TABLE 1 Kit KME4701 Parts Qty. Application of New Control Labels To reflect the new features available in the Form 4C Control, new labels must be added to the units inside door panel. 1. Remove the document spring clip on the inside of the control door panel. Kyle Type Form 4C Recloser Control Front Panel Replacement Kit KME4701 INSTALLATION 4 Kyle Type Form 4C Form 4C Recloser Control Cabinet Door KME41110 Cabinet Door Revision Label Figure 3. Application of labels inside of door panel left, label application

outside door panel right. The view may differ slightly for different versions of the Form 4C control. Proceed as follows 1. Remove the control from service. Follow all locally approved safety regulations, practices, and procedures. Release the cable from the tywraps and cable clamps.

<http://www.dolciariavarone.com/images/90-elpto-service-manual.pdf>



Single-phase pad-mounted voltage regulator. Courtesy Cooper Power Systems

Discover everything Scribd has to offer, including books and audiobooks from major publishers. Report this Document Download Now Save Save F4C.pdf For Later 0 ratings 0% found this document useful 0 votes 14 views 52 pages F4C.pdf Uploaded by alvaro Description Full description Save Save F4C.pdf For Later 0% 0% found this document useful, Mark this document as useful 0% 0% found this document not useful, Mark this document as not useful Embed Share Print Download Now Jump to Page You are on page 1 of 52 Search inside document Browse Books Site Directory Site Language English Change Language English Change Language. All Cooper Power Systems Regulators are manufactured and tested to ANSI standard unit construction, which suspends the internal assembly and the control enclosure from the cover, allows for ease of inspection and are three types of step Voltage Regulators source side series winding, load side series winding, and series transformer. Cooper Power Systems Regulators are usually equipped with an equalizer winding. The nameplates located on the tank and control box clarify the power to shipment, the regulator is thoroughly tested and inspected at the factory. Immediately upon receipt of the regulator shipment, before unloading, a thorough inspection should be made for damage, evidence of rough handling, or shortages. 6 The position indicator, junction box, arrester, radiators, and bushings should all be inspected for evidence of damage. Should this initial inspection reveal evidence of rough handling, damage, or shortages, it should be noted on the Bill of Lading and a claim should immediately be made with the carrier. Also, notify Cooper Power Systems, 2300 Badger Drive, Waukesha, Wisconsin 53188, attention Service an overhead crane is used for unloading, the regulator must be lifted by means of a sling and spreader bar utilizing the tank mounted lifting lugs which are shown in Figure 12. Do not lift the entire unit with the lifting eyes on the cover.

<http://atlantichurricane.com/images/90-honda-accord-owners-manual.pdf>

Reclosers



Figure 1.
Kyle[®] Type Form 4C Recloser Control

Contents

Safety Information	2	Installation	4
Safety Instructions	2	Application of New Control Labels	4
Hazard Statement Definitions	2	Removal of Front Panel Assembly	5
Product Information	3	Installation of Control Panel	6
Introduction	3	Programming and Testing	7
Description	3	Troubleshooting	7

The lifting eyes are only to be used to untank the internal assembly which is attached to the Do not subject tap changer to temperatures above 150oF. To do otherwise may cause excessively high or low Voltage on the load side of the regulator or cause severe damage to the the regulator is not to be placed into immediate use, it can be stored with minimal precautions. Locate the unit where the possibility of mechanical damage is Inspection Before connecting the regulator to the line, make the following inspection 1. Check the oil sight gauge. Look for visible signs of oil Examine the series arrester for damage. If damaged, install a new arrester of the same Voltage Inspect the porcelain bushings for damage or leaking seals. If there is a suspicion that moisture has entered the unit, remove the handhole cover and inspect for evidence of moisture such as rust or water tracks in the oil. If moisture has entered the tank, dry the regulator and filter the oil before putting the unit in oil must test 26 kV minimum in a standard gap ASTM D877. 8 Be sure to properly replace the handhole If the regulator has been stored for some time, test the dielectric strength of the oil according to ASTM The regulator may be energized at rated line Voltage with caution and an operational check, page 18, can be performed. This procedure is optional. 6. A Hipot test may be done to insure adequate electrical clearances to ground. This procedure is optional. Systems Connections A regulator can regulate a single phase circuit, or one phase of a three phase wye or delta circuit. Two Regulators connected phase to phase in open delta, or three Regulators connected phase to phase in closed delta, can regulate a three phase, three wire delta circuit. When connected in wye, three Regulators can regulate a three phase, four wire multigrounded wye circuit. Three regulators cannot be connected in wye on three phase, three wire circuits because of the probability of neutral shift.

9 Typical connection diagrams are illustrated in Figure 13 Typical connections 14 Elevating Regulator and CL4C Control NOTE Individual switches are shown for the bypass and disconnect functions. However, a regulator bypass disconnect switch can be used in each phase to perform the bypassing and disconnecting operations in sequence. Each of these switches replaces one bypass and two disconnect switches shown in the regulator can be mounted on a pole, cross arm platform, or elevating structure optional. Regulators are normally provided with either pole mounting brackets or a station platform according to the rating. This information is available in Table 31, page 31, by noting the S Substation suffix to the kVA. A Cooper Power Systems elevating structure Figure 14 can be used to simplify substation installation of Regulators requiring a specific live part to ground

regulator control can be mounted on the regulator tank, or at a point remote from the unit. 10 Rubbercovered cable is available in lengths of 15, 20, 25, 30, and 35 ft for interconnection between the control and the When installing a regulator, solidly ground both the regulator tank AND the control. Before closing the bypass switch, the regulator must be on NEUTRAL and the control switch set to A should be followed when one bypass switch and two disconnect switches are used. Procedure B should be followed when a regulator bypass disconnect switch A Regulator Into Service Regulators can be placed in service without interrupting load 15 Knife switches and TB1 with optional V6 knife switch and RCT2. A threaded stud is provided at the bottom of the control enclosure for grounding A ONE BYPASS SWITCH AND TWO DISCONNECT SWITCHES 1. Show more Die embossed housing has full length die formed They regulate distribution line voltages from 10% raise boost to 10% lower Leslie was more than his friend. She was his other, more exciting Be patient! fearless, Im p o. Im Roleplay y our scripts daily. Be patient ! Im fearless, Im p o werful, unstoppable.

<https://www.sahabatkeluarga.homecare.com/wp-content/plugins/formcraft/file-upload/server/content/files/16285e7a664686---C18-repair-manual.pdf>

Follow the numbers! Be patient! fearless, Our scripts daily. Be patient, DUI Law Grading and Sentencing Guide. Download Reclosers Kyle. We actively promote safe practices in the use and maintenance of our products through our service literature, instructional training programs, and the continuous efforts of all Cooper Power Systems employees involved in product design, manufacture, marketing, and service. We strongly urge that you always follow all locally approved safety procedures and safety instructions when working around high voltage lines and equipment and support our "Safety For Life" mission. SAFETY INFORMATION The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe operation of the equipment described. Only competent technicians who are familiar with this equipment should install, operate, and service it. For safe installation and operation of this equipment, be sure to read and understand all cautions and warnings. Safety Instructions Following are general caution and warning statements that apply to this equipment. Additional statements, related to specific tasks and procedures, are located throughout the manual. DANGER Hazardous voltage. Contact with hazardous voltage will cause death or severe personal injury. Follow all locally approved safety procedures when working around high and low voltage lines and equipment. G103.3 ! WARNING Before installing, operating, maintaining, or testing this equipment, carefully read and understand the contents of this manual. Improper operation, handling or maintenance can result in death, severe personal injury, and equipment damage. G101.0 ! Hazard Statement Definitions This manual may contain four types of hazard statements DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. ! WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

! CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. ! CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in equipment damage only. 2 WARNING This equipment is not intended to protect human life. Follow all locally approved procedures and safety practices when installing or operating this equipment. Failure to comply can result in death, severe personal injury and equipment damage. ! G102.1 WARNING Power distribution equipment must be properly selected for the intended application. It must be installed and serviced by competent personnel who have been trained and understand proper safety procedures. These instructions are written for such personnel and are not a substitute for adequate training and experience in safety procedures. For additional voltages such as 240 Vac, or for delta inputs, consult your Cooper Power Systems representative. Read This Manual First Read and understand the contents of this manual and follow all locally approved procedures and safety practices before installing or operating this equipment. Additional Information These instructions cannot cover all details or variations in the equipment, procedures,

or process described, nor provide directions for meeting every possible contingency during installation, operation, or maintenance. When additional information is desired to satisfy a problem not covered sufficiently for the users purpose, contact your Cooper Power Systems representative. ANSI Standards Kyle reclosers are designed and tested in accordance with the following ANSI standards C37.60 and C37.85 and ANSI Guide C37.61. Quality Standards ISO 90012000 Certified Quality Management System. It is carefully calibrated, adjusted and in good condition when accepted by the carrier for shipment. Upon receipt, inspect the carton for signs of damage. Unpack the control and inspect it thoroughly for damage incurred during shipment.

If damage is discovered, file a claim with the carrier immediately. Handling and Storage order to maintain sufficient charge to operate the control, the sealed lead acid batteries should be charged after no more than three months of storage. Temperature has an effect on battery life. Sealed lead acid batteries should be stored, fully charged, at room temperature. **IMPORTANT** To maintain sufficient charge to operate the control and prevent battery cell damage, the sealed lead acid batteries should be charged after no more than three months of storage. To keep the batteries charged, energize the control's builtin charger with ac power applied to the user ac supply input connector block TB1, located left of the RIF module within the control cabinet. Note When shipped from the factory, the battery source is disconnected and its output plugs are taped to the cabinet. Connect the battery plugs into the mating connectors to complete the battery circuit. **IMPORTANT** Connect the control batteries when ac power is connected to the control's AC supply Input Terminal Block. The batteries must be disconnected prior to shipping or storing the control. Control Power The primary source of power is factory configured for 120 Vac or 240 Vac. The 240 Vac version is available as an option at time of order entry. A minimum of 500 mA of ac current is required for heater operation, battery charging current, and to keep all modules energized. AC Reclosers Power to operate the tripping and closing solenoids in the recloser is provided by the power capacitor located behind the operator panel of the control. Two 12 Vdc batteries are located in the lower portion of the control cabinet and are utilized to provide operating and tripping energy when ac power is temporarily lost. The control is equipped with an ac powered, temperature compensated battery charger. Be careful during handling and storage of the control to minimize the possibility of damage.

If the control is to be stored for any length of time prior to installation, provide a clean, dry storage area. If storage is in a humid atmosphere, make provisions to keep the control circuitry energized. Battery Replacement and Disposal Note Dispose of expired batteries in an environmentally responsible manner. Consult local regulations for proper battery disposal. To energize the control, apply AC power to the AC supply input connector block TB1 located left of the Recloser Interface RIF module within the control. Refer to the Customer Connection for AC power section in this manual. The control batteries have a life expectancy of three to five years. It is recommended that the batteries be replaced after four years. Method 1 Connect ac power to the input connector terminal TB1. Refer to the Customer Connections for AC Power section of this manual. See Figure 4. Note **IMPORTANT** The control power supply uses the 60 Hz or 50 Hz frequency as a time synch to maintain control clock accuracy. The ac power LED indicator on the operator panel of the control will turn off after 15 seconds upon loss of ac power. The indicator will illuminate immediately upon return of ac power. Method 2 powers the control off the battery and is not intended for long term operation. After initialization, set the control clock via the interface software. Refer to Setting the Control Clock section in Service Information S280792, Form 5 Recloser Control Programming Guide. LED Indicators SOURCE I and SOURCE II Six LED indicators provide status information for each phase of Source I and Source II and indicate which phase initiated LS operation. In the sectionalizing mode, the SOURCE II disable key does not affect control performance. Operation "Hot Keys" Indicates in which mode of operation the accessory is set. LS NOT RESET Indicates the status position of the LS NOT RESET function. Following an LS operation, LED will illuminate.

LS DISABLED Indicates the LS option has been disabled from either supervisory control or function key. LS RESET Resets the LS control back to its normal “reset” position. Depressing this button turns off the LS NOT RESET indicator LED. This cable also supplies Trip, Close, and Recloser status, and connects to the Recloser Interface RIF module to provide isolation for reliable operation. Voltages for ac power and metering are also connected to the RIF module via the connector terminal block, TB1 Figure 3. Data sampling occurs at a rate 32 times per cycle. The current for overcurrent protection is calculated on a subcycle basis; it includes only the fundamental and DC component. For metering, the fundamental and harmonic current and voltages are determined. 3. Upon opening, the control starts timing on the first reclosing interval delay time. 1. The overcurrent signal is integrated with time on the selected curve for the first trip operation TCC1 to produce the signal which energizes the trip circuit. 2. Energizing the trip circuit connects the battery and capacitor to the trip solenoid to open the recloser. 4. Upon expiration of this reclosing interval delay, a closing signal is issued from the control, closing the recloser and selecting the time current characteristics for the second trip operation TCC2. 5. If current remains above the minimum trip level, the tripping and reclosing sequence is repeated. 6. The control begins the reset delay timer if the overcurrent is cleared before the operating sequence reaches lockout indicated by a closed recloser and current below minimum trip. When the phase or ground current exceeds its programmed minimum trip value and associated time current curve TCC timing, the control initiates the programmed sequence of recloser tripping and reclosing operations via the CPU and RIF modules.

If the fault is temporary, the control ceases to command recloser operations after a successful reclose, and the control resets to the start of its operating sequence after a preset time delay. If the fault is permanent, the control performs its complete programmed sequence of reclose commands and locks out with the recloser open. Once locked out, the control must be closed via the operator panel or SCADA communications. This resets the control to the start of the operating sequence. 7. When the reset delay times out, the control is reset to the home state and is ready for another programmed operating sequence. If current rises above minimum trip prior to the reset delay timing out, the timer is halted and the control resumes the operating sequence while the accumulated reset delay timing is restarted. The standard configuration incorporates a Central Processing Unit CPU module, Power Supply module, Recloser Interface RIF module, and an operator panel. Mounting provisions can be provided to add customer-supplied radio and modem modules. Loop schemes are utilized on distribution systems to improve reliability by favorably correcting indices such as SAIFI and MAIFI. These improvements are realized through reduced outage times and fewer momentaries. The sectionalizing mode senses voltage on the source side of a normally closed recloser and is activated upon loss of source side voltage. The tie mode of operation senses voltage on both sides of a normally open recloser and is activated upon loss of voltage on either side. Recloser Interface RIF Module The Recloser Interface RIF Module provides the interface between the recloser and the CPU module, as well as the interface between the voltage sensors and the CPU module. The recloser connector includes three current transformer inputs, Open and Closed status sensing, and Trip and Close controls. The voltage sensor connector accepts six voltage inputs; three for source side, and three for load side voltage.

Six slide type switches one for each phase are mounted on the module to facilitate loss of voltage testing. The RIF board accepts either 12, 120, or 240 Vac voltage inputs for metering. The factory configuration is outlined on the module label and can be customized to user specification. Refer to Recloser Interface RIF Module Configuration section of this manual. The CPU contains a 32bit microcontroller, a Digital Signal Processor, RAM and EEPROM memory, and a 16bit analog to digital converter. The CPU module accepts 16 analog inputs which it routes through the digital signal processor, which samples 32 times per cycle, to compute harmonic analysis to the 15th harmonic. Power Supply Module The Power Supply module is designed to accept 100 to 134 Vac or 200 to 268 Vac user-supplied input power at either 50 or 60 Hz. **IMPORTANT** The control power supply uses the

60 Hz or 50 Hz frequency as a time synch to maintain control clock accuracy. The Power supply module connection P9 provides auxiliary power to radio communications units, RTUs and other accessories. The auxiliary output provides 24 Vdc 12 Vdc is available for user loads. The auxiliary power supply has the capability to provide a load of up to 40 W peak 1 second and 3 W average. The auxiliary power is fused and currentlimited to prevent user loads from disabling the control. The CIF module also provides the link between the CPU module and all external communications such as personal computers, modems, and radios. The CIF can house up to two communication interface cards optional, in addition to the required Local User Interface, plus provide communication to the front operating panel. Direct serial communication is achieved via fiberoptic or RS232 connection. Refer to the Communications section of this manual. Reactivating is accomplished by pressing any operation switch. The LCD messages will remain while in this powersaving mode, although the illuminating backlight will shut off.

<http://www.raumboerse-luzern.ch/mieten/boss-gt-10-manual-espa-ol>