# carel mastercella user manual


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**Book Descriptions:**

# carel mastercella user manual

This new model is the response to the need for an integrated and complete solution for single phase, static or ventilated cold rooms. The device directly manages singlephase units with up to 2 HP compressors; the powerful relays fitted also control all the other actuators evaporator fans, defrost, lights and alarm relay. The high IP65 index of protection means that MasterCella can also be installed in humid environments. The case can be installed directlyMasterCella manages smart defrosts, consequently ensuring energy savings in the system as a whole, and can be fitted with a clock for real time defrosts rather than at set intervals, as is usually the case. In the models fitted with a clock, HACCP management is standard this guarantees control of the temperature of stored foodstuffs. Otherwise, we'll assume you're OK with our use of cookies. The unit has got more space for wiring, with cable inlet from above or below, it manages smart defrost, ensuring energy saving in the system as a whole and there is a possibility to install a main switch. All these features make the MasterCella coldroom controller the best solution available in the market. Select the attributes you require, then click the button below This controller has a width of 72mm and a height of 144mm device. This controller with a modular design is easy and simple to reconfigure or retrofit. The standard unit itself is fully functional and.It features simple operation and a high switch rating. The design of the model SC58 enables the controller to be used as an alternative to the purely mechanical remote reading thermometer model TF58. In comparison to mechanical thermostats, the.It has 4 digit display and the controller size is 96 x 96mm.The IR33 series controllers feature two independent control loops and now with the addition of auto tuning and a realtime clock for cycle and alarm.http://dm288.com/slicice/bosch-hd17052u-manual.xml

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How can I see products similar to this JSFiddle or its authors are not responsible or liable for any loss or damage of any kind during the usage of provided code. The topoftherange version has 5 relays, while all models come as standard with 2 probe inputs and 3 digital inputs the latter can be configured for probes, if required by the application. These devices are completely compatible with the ir33 range in terms of both software and functions. The hardware supplied is very powerful and allows direct control of up to 2 hp compressors and management of defrost heaters with 16 a relays. Integrated electronic. Microprocessor controller. Read and save these instructions page 1 of 3. Programming the instrument. To modify the setpoint. 050001511 rel. 1 of 14072009 ir33 smart ir33s7hr0e electronic controller for normal and high temperature static refrigeration units bn1 normal. Code block parameter. Model unit type min. Max. Def. New. Pro measurement stability. Msc. Pro probe display speed. Msc. User manual tempatron Ir33 din powercompact powercompact small mastercella. User manual. The carel product is a stateoftheart product, whose operation is specified in the. Model unit type min. Max. Def. New. Pro measurement stability. Msc. Pro probe display speed. Msc. This green choice. UltraCella and humiSonic in cold room applications. Zetronix is your onestop shop for high tech spy mastercella user manual cams, spy pens, nanny cams, GPS tracking device, dash cams, sports cams and much more. Complete your mastercella user manual multimedia entertainment. Carel mastercella Pdf User Manuals. IMPORTANT CAREL bases the development of its products on decades of experience in HVAC, on the continuous investments in technological innovations to products, procedures and strict quality processes with incircuit and

functional testing on. Carel mastercella Pdf User Manuals. Controller can be expanded with accessory modules.http://famous-celebrity-autographs.com/userfiles/bosch-hds7052u-manual.xml

The mastercella user manual user complained that the evaporator fans do not run much of the time, not a problem says me, I will reprogram the controller so that the fans run all the time except during defrost. ENGLISH IMPORTANT WARNINGS CAREL bases the development of its products on decades of experience in HVAC, on the continuous. Manuals and User Guides for Carel mastercella. We wish to save you time and money. View online or download Carel mastercella User Manual. This new model is the response to the need for an integrated and complete solution. The controllers feature a simple user interface, two Carel mastercella manual unit has got more space for wiring, with,anual inlet from above or below, it manages smart defrost, ensuring energy saving in the system as a whole and there is a possibility carel mastercella manual install a main switch. Also for Ir33 power, Ir33 din, Powercompact small, Mastercella, Powercompact. Carel mastercella Pdf User Manuals.MasterCella represents one of the leading products in the CAREL refrigeration range. Cable connection is extremely easy thanks to an easly removable front cover.The MasterCella series simplifies the “HACCP” procedure, in that it informs the user of the correct temperature trend, activating a local alarm buzzer and remote alarm special relay if the maximum set limit mastercella user manual is exceeded. Easy Thermostat pdf manual download. manual. Carel mastercella Pdf User Manuals. Complete your multimedia entertainment. Carel mastercella compact manual. MasterCella compact is the compact solution for the control of singlephase cold rooms. electronic digital thermostats with defrost control. View and Download Carel Easy user manual online. Ir33 Temperature Controller pdf manual download. I have a problem with a Carel Master Cella controller connected to a walk in cold room.View online or download mastercella user manual Carel mastercella User Manual. User manual electronic controller.

Exploiting the experience acquired over recent years, MasterCella has been upgraded and proposed in a modern design, so as to better respond to customer expectations. MasterCella is the new control for static or ventilated refrigerated units. This new model is the response to the need for an integrated and complete solution. Espanol ADVERTENCIAS IMPORTANTES CAREL basa el desarrollo de sus productos en una experiencia de varios decenios en el campo HVAC, en la inversion continua en innovacion. Also for Easy compact, Easy split. Hi everybody and a good new year. User manual in the user manual, may cause the final product to malfunction; CAREL accepts. I dont like the batch of discrete controllers, be they Dixell, Carel, Johnson etc. So with Technical Leaflet in hand and feeling rather smug I. CAREL Refrigeration Controller Manuals. MasterCella represents one of the leading products in the refrigeration range offered by CAREL. View online or download Carel mastercella User Manual.General characteristics ir33 represents the basic selection offered by CAREL for applications in refrigeration. View online or download Carel mastercella user manual mastercella User Manual. The liability of CAREL in relation to its products is speci. The Carel MasterCella range is the response to the need for integrated singlephase, static or ventilated cold rooms. MasterCella is the new control for static or ventilated refrigerated units.CAREL Description Set point Differentia Neutral zone Models MSYFCH SYFCH SYFCH Def Def. Click on an alphabet below to see the full list of models starting with that letter mastercella. MasterCella represents one of the leading products in the CAREL refrigeration range. The controllers feature a simple user carel mastercella manual, two Job and careers Legal notice. Global Suppliers of Timers, Temperature and Process Controllers for Industry.

They are never put in a safe and dry place by the manufacturers, they have arcane alphabets that appear to be calculators with a diode out, or the caps lock on, they are passworded, but not really, and they are being applied as defrost clocks and thermostats in applications where mechanical replacements are. View and Download Carel Ir33 mastercella user manual DIN user manual online. I have a problem with a Carel Master Cella controller connected to a walk in cold room.Carel

Temperature Controller manuals Manualslib has more than 44 Carel Temperature Controller manuals. Exploiting the experience acquired over recent years, MasterCella has been upgraded and proposed in a modern design, so as to better respond to customer expectations. Ir33 DIN Control Unit pdf manual download. Cable connection is extremely easy thanks to an easly removable front cover. View and Download Carel Ir33 user manual online. The grey rows in the table denote masked parameters. Its 5 relays directly manage all the actuators, in particular the compressor up to 2HP. Its 5 relays directly manage all the actuators, in particular the compressor, up to 2 Hp. MasterCella compact does not require an extra electrical panel, because it works too as mastercella user manual the electrical panel for the cold room.User manual Manuel d'utilisation Einbau und Bedienungsanleitung Manuel de utilizacion MasterCella e il nuovo controllo elettronico per unita frigorifere statiche o ventilate, in grado di gestire tutti gli attuatori normalmente presenti, quali compressore, ventole, sbrinamento, allarme e.A subcritical CO2 refrigeration system has been chosen by the President Square Hyper in Vanderbijlpark, an industrial city in South Africa. Carel mastercella Pdf User Manuals.User manual. Carel mastercella Pdf User Manuals. We can assure you that the thorough reading of this manual will guarantee correct installation and safe use of the product described.

A complete set of controls, from the singlerelay version for static refrigerated units with normal temperature, with control only on the compressor, to the 4relay version for ventilated, low temperature units, with compressor control, resistor or hot gas defrost, evaporation fans. 1 Def. View online or download Carel mastercella User Manual. User manual. ENGLISH IMPORTANT WARNINGS CAREL bases the development of its products on decades of experience in HVAC, on the continuous investments in technological innovations to products, procedures and strict quality processes with. We have 3 Carel mastercella manuals available for free PDF download User Manual. User Par. Also for Ir33 din, Ir33 power, Powercompact small, Powercompact, mastercella user manual Mastercella.Page 1 DIN powercompact powercompact small mastercella User manual Page 3 User manual Page 4 The technical speci. Only qualified personnel may insall or carry ou echnical service on he produc. The cusomer mus only use he produc in he manner described in he documenaion relaing o he produc. In addiion o observing any furher warnings described in his manual, he following warnings mus be heeded for all CAREL producs Preven he elecronic circuis from geing we. Rain, humidiy and all ypes of liquids or condensae conain corrosive minerals ha may damage he elecronic circuis. In any case, he produc should be used or sored in environmens ha comply wih he emperaure and humidiy limis specified in he manual. Do no insall he device in paricularly ho environmens. Too high emperaures may reduce he life of elecronic devices, damage hem and deform or mel he plasic pars. Do no aemp o open he device in any way oher han described in he manual. Do no drop, hi or shake he device, as he inernal circuis and mechanisms may be irreparably damaged. Do no use corrosive chemicals, solvens or aggressive deergens o clean he device. Do no use he produc for applicaions oher han hose specified in he echnical manual.

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effecs on human healh and on he environmen; he symbol crossedou wheeled bin shown on he produc or on he packaging and on he insrucion shee indicaes ha he equipmen has been inroduced ono he marke afer 13 Augus 2005 and ha i mus be disposed of separaely; in he even of illegal disposal of elecrical and elecronic wase, he penalies are specified by local wase disposal legislaion. Warrany on he maerials 2 years from he dae of producion, excluding consumables. Approval he qualiy and safey of CAREL INDUSTRIES Hqs producs are guaraneed by he ISO 9001 cerified design and producion sysem. WARNING separae as much as possible he probe and digial inpu signal cables from he cables carrying inducive loads and power cables o avoid possible elecromagneic disurbance. Never run power cables including he elecrical panel wiring and signal cables in he same conduis.

These conrollers are especially suiable for applicaions requiring high load swiching power, funcions and conrol wih direc access from he keypad, high IP ingress proecion and compac dimensions. In erms of reliabiliy, all he conrollers are fied wih an elecronic device wachdog ha prevens he microprocessor from losing conrol, even wih high levels of elecromagneic disurbance. In addiion o he conrol probe, a furher hree probes can be configured, as produc probe display only, condenser, fros proecion and defros probe. Using he advanced defros funcions, if he condiions are righ, subsequen defross can be posponed or skipped. Visual Parameer Manager VPM allows up o 7 differen configuraions ses of parameers o be loaded ono he conroller he conroller operaing parameers plus 6 ses of cusomisable parameers. The accessory has been designed as a plugin addiion o he conroller and consequenly can be insalled following insallaion if needed. The programming key can hen be used o program he conrollers or read he conroller parameers, and for example copy a configuraion from one conroller o he ohers. Fig. 1.f Remoe display The remoe display can be used o display one of he sysem variables. See he insrucion shee . To improve immuniy o disurbance, use probes wih shielded cables connec only one end of he shield o he earh on he elecrical panel; 2. program he conroller as shown in he chapers Commissioning and User inerface; 3. connec he acuaors he acuaors should only be conneced afer having programmed he conroller. The secondary of he ransformers ha supply he conrollers mus no be earhed. If connecion o a ransformer wih earhed secondary winding is required, an insulaing ransformer mus be insalled in beween. The following warnings mus be observed when connecing he conrollers incorrec connecion of he power supply may seriously damage he conroller; use cable ends suiable for he corresponding erminals.

Loosen each screw and inser he cable ends, hen ighen he screws and genly pull he cables o check heir ighness. When ighening he screws, do no use auomaic screwdrivers, raher adjus ool ighening orque o less han 0.5Nm; separae as much as possible by a leas 3 cm he probe signal and digial inpu cables from inducive loads and power cables, o avoid any elecromagneic disurbance. Never lay power cables and probe cables in he same cable conduis including hose for he elecrical panels. Do no insall he probe cables in he immediae viciniy of power devices conacors, circui breakers or he like. Reduce he lengh of he sensor cables as much as possible, and avoid spirals around power devices; only use IP67 guaraneed probes as end defros probes; place he probes wih he verical bulb upwards, so as o faciliae drainage of any condensae. Remember ha hermisor emperaure probes NTC have no polariy, so he order he ends are conneced in is no imporan. When connecing a series of unis o he same imer, insulae all he conacs digial inpus galvanically, insering an inermediae relay for each conac. Cleaning he conroller When cleaning he conroller do no use ehanol, hydrocarbons perol, ammonia and byproducs. The keys are plugged ino he connecor 4 pin AMP available on he conrollers. All he operaions can be performed wih he conroller off. Imporan a separae ransformer mus be used for each conroller, NEVER connec muliple conrollers o he same ransformer. Fig. 2.y The funcions are seleced by seing he wo dipswiches, accessible by removing he baery cover. 11 12 UPLOAD DOWNLOAD EXTENDED DOWNLOAD load he parameers from a conroller ono he key UPLOAD; copy from he key o a conroller DOWNLOAD; exended copy from he key o a conroller EXTENDED DOWNLOAD. Imporan The parameers can only be copied beween conrollers wih he same par number. The UPLOAD operaion can, however, always be performed. Oher signals or he

flashing of he LED indicaes ha problems have occurred see he able below; 4.

a he end of he operaion, release he buon, afer a few seconds he LED goes off; 5. remove he key from he conroller. Replace he baeries. During he copy operaion or a he end of he operaion he baery level is low. Replace he baeries and repea he operaion. The parameer seup canno be copied as he conneced conroller model is no compaible. Error in he daa being copied. The copy operaion was no compleed due o a serious error when ransferring or copying he daa. Repea he operaion, if he problem persiss check he key connecions. See he following diagram. Connec he RS485 converer o he conrollers and make he connecions as shown in he figure. To assign he serial address, see parameer H0. See he insrucion shees on he converers for furher informaion. Noe he DOWNLOAD operaion normal or exended is possible even if he operaing and conrol parameers are incorrec; in his case, hey will be recovered from he key. Be careful when recovering he uni parameers from a key, as hese deermine he lowlevel operaion of he conroller uni model, ype of inerface, assignmen of logical relay o physical relay, brighness of he display, level of modulaion of he relay conrol signal . The uni parameers from he original model mus herefore be resored o ensure correc operaion of he conroller. Fig. 2.z 12 13 The fron panel conains he display and he keypad, made up of 4 buons ha, when pressed alone or combined wih oher buons, are used o program he conroller. Icon Funcion Normal operaion Sarup Noes Flashing Compressor On Off Awaiing acivaion Flashes when acivaion is delayed or inhibied by proecion imes Fan On Off Awaiing acivaion Flashes when acivaion is delayed by proecion imes or oher procedures in progress Defros Acive Awaiing Flashes when acivaion is delayed by proecion imes or oher procedures in progress AUX oupu AUX oupu 1 or 2 acive Aniswea heaer funcion acive Alarm Clock Ligh On if delayed alarm from digial inpu On if a imed defros has been se.

Access differs depending on he ype se poin, frequenlyused parameers F and configuraion parameers C. The ype of parameer is specified in he able of parameers. Access o he configuraion parameers is proeced by a password for he configuraion parameers ha prevens unwaned modificaions or access by unauhorised persons. The password can be used o access and se all he conrol parameers. This exis he parameer seing procedure. Seing ype F parameers Type F parameers include he se poin, differenial, emperaure monioring inerval, inerval beween defross, end defros emperaure, dripping ime, alarm hresholds, alarm bypass imes, ec. See he parameer able. When seing he se poin, he new value is saved afer confirming wih Se. The values of he clock parameers rc, however, are saved when enered. Parameer caegories Caegory Tex Icon Caegory Tex Icon Probes Pro Fan FAn Conrol CL Configuraion CnF Seing ype C parameers Type C parameers include he ype F parameers plus all he oher conrol parameers. Tesing he display and keypad on sarup To access es mode 1. Swich he conroller on; 2. Press Prg when he hree segmens on he display are all on sage 3 in he able below. Sage Display pad Firs Display compleely Press Prg for 5 seconds o se he defaul values off for 5 seconds Second Display compleely No effec on for 2 s Third 3 segmens Pressing each buon lighs up a specific segmen. on Noe in his sage, he icon indicaes he Real Time Clock RTC is fied Fourh Normal operaion Normal operaion Tab. 3.g The sequence of buons o be pressed o es he display in sage 3 is described below. Noe only one on or off even can be programmed. DEACTIVATI press for 5 seconds DEF Afer 5 seconds, he display shows he end defros signal dfe. The display shows he ex Off flashing for 3 seconds, and hen on seady. Finally, he ex Off alernaes wih he sandard display. Any acive oupu relays are deacivaed. To swich he conroller on from he keypad press OnOff for 1 s. The display shows he ex On for 1 s and hen reurns o he sandard display.

Any oupu relays are acivaed again. Access he parameers and hen se he required values. When pressing Se, afer having enered he value, he display does no show he parameer, bu raher immediaely shows he new value of he probe reading being calibraed. This means he resul of he seing can be checked immediaely and any adjusmens made as a consequence. Finally, press Prg for 5 seconds o save he value of he parameer. The message cc flashes on he display for 3 seconds, and

subsequenly, if he condiions are suiable, he conroller shows he sar coninuous cycle message ccb and he corresponding icon on he display. The conroller reses he oal hours and resars monioring; press Se o reurn o he lis of parameers; o display he maximum emperaure measured by he probe, read he value associaed wih parameer rh; o display he minimum emperaure measured by he probe, read he value associaed wih parameer rl. Noe afer he maximum ime of 999 hours, minimum and maximum emperaure monioring coninues, while he ime inerval remains fixed a 999. Imporan he values of parameers r, rl and rh are saved o he conroller s memory every hour. If he conroller is no conneced o an uninerrupible power supply, a emporary blackou may mean he values of r, rl and rh measured in he las hour will be los. Low values assigned o his parameer allow a promp response of he sensor o he emperaure variaions; he reading however become more sensiive o disurbance. The emperaure shown on he display ends o follow rapid deviaions away from he se poin very slowly, and viceversa, moves very quickly in he even where he emperaure displayed is approaching he se poin. Example in he case of bole coolers, ypically used in supermarkes where he doors are opened frequenly, due o he greaer hermal ineria of he liquids compared o he air and he fac ha he probe is posiioned in he air and no direcly on he producs, he conroller measures a emperaure ha is higher han effecive emperaure of he sof drinks, hus displaying an unrealisic emperaure.

Display on user erminal and remoe display The user erminal conroller display can eiher display he value of he virual conrol probe see he chaper on conrol, he reading of probes 14 or he se poin. Type C parameers, being passwordproeced, can always be se on he keypad following he procedure described in chap. 3. If se poin and F parameer seing is disabled, he se poin and he ype F parameers canno be se, bu raher only heir values can be displayed. Noe he funcions disabled using parameer H6 are added o hose disabled using parameer H2. Disable buons Bi Value par.For example, selec bn2; press Se o confirm he seleced se he conroller will load he se of parameers called bn2 and hen will reurn o he sandard display. Par. Descripion Def Min Max UOM Hdn Number of defaul parameer ses available Tab. 4.j Noe bn0 is he defaul se of parameers on he conroller, i.e. he defaul configuraion. Noe all he alarms wih manual rese can be rese by pressing he Prg and UP buons ogeher for more han 5 seconds. Probes S3 and S4 can also be configured as digial inpus. The probes can be calibraed o adjus heir readings. See he able below. Imporan o ensure uni safey in he even of serious alarms, he uni mus be fied wih all he elecromechanical safey devices needed o guaranee correc operaion. Noe applies o all seings of par. A4 and A5 if 2 digial inpus are configured in he same way, for example o enable defros, he disable even is generaed when a leas one of he inpus is open, while he enable even is generaed when a boh inpus are closed. When he alarm is acivaed 1. he following acions occur a signal is shown on he display IA ; he icon flashes; he buzzer is acivaed, if enabled; he alarm relay is acivaed, if seleced; 2. and he acuaors behave as follows compressor operaes depending on he values assigned o parameer A6 sop compressor on exernal alarm.Applicaion his configuraion is especially useful for managing he low pressure alarm.

In fac, when saring for he firs ime, he uni ofen deecs a low pressure alarm due o he environmenal condiions raher han a uni malfuncion. Seing a delay for he alarm par. A7 will avoid false signals. In fac, by suiably calculaing he delay, if he low pressure is due o environmenal condiions low emperaure, he alarm will be auomaically rese before he delay has elapsed. The various possibiliies are shown below. To perform he defross, connec a cyclical, mechanical or elecronic imer o he seleced digial inpu a series of unis can be conneced o he same imer, seing differen values for parameer d5 defros delay from mulifuncion inpu o avoid simulaneous defross. When connecing a series of unis o he same imer, he bes soluion is o insulae all he conacs galvanically, insering an inermediae relay for each conac. Parameer d8d is he alarm bypass ime afer he door is opened. The behaviour of he door swich depends on he saus of he ligh when he door is opened 1. ligh off; 2. ligh on. 21 22 Case 1 ligh off when opening he door If he door is opened wih he ligh he compressor and he evaporaor fans are swiched off; he ligh is swiched on only on models fied wih a leas 1 auxiliary relay programmed as a ligh oupu; he reading displayed and he icon flash; he emperaure alarms are

disabled. If he door remains open for a ime longer han d8 d8d, he conroller resumes normal operaion he compressor and he evaporaor fan are swiched on, if needed; he ligh is swiched off; he reading on he display flashes; he buzzer and he alarm relay are acivaed; he emperaure alarms are enabled wih he delay Ad. To sop he reading from flashing, close he door. When he door closes, he conroller resumes normal operaion, swiching off he ligh and enabling he emperaure alarm afer he delay ime d8. The compressor is resared, afer any se proecion imes see he C parameers.

Noe if he ligh was previously swiched on manually, when he door is closed for he second ime, i is auomaically swiched off; even if he evaporaor fan is managed by he fan conroller see he F parameers, he fans are forced o sop when he door is open. This algorihm resolves any problems relaing o fauls or malfuncions of he door swich. Doorswich Case 2 ligh on when opening he door The icon is on. If he door is open wih he ligh on, i is assumed he user eners he cold room, urning on he ligh before enering, closing he door behind him, and hen exis he room, closing he door a second ime. When he door is opened he firs ime he compressor and he evaporaor fans are swiched off; he ligh says on only on models fied wih a leas 1 auxiliary relay programmed as a ligh oupu; he reading is displayed and he icon flashes; he emperaure alarms are disabled. When he door is closed he firs ime, he conroller mainains he previous siuaion he compressor and he evaporaor fans say off; he ligh says on; he reading is displayed and he icon flashes; he emperaure alarms are disabled. Door opened he second ime no change. When he door is closed he second ime, he conroller resumes normal operaion, swiching off he ligh and enabling he emperaure alarm afer he delay ime d8. When he compressor resars, any se proecion imes mus elapse firs see he C parameers. If, afer opening, he door remains open for a ime longer han d8 or d8d, he conroller resumes normal operaion compressor and evaporaor fan swiched on if needed; ligh off; he reading on he display flashes; he buzzer and he alarm relay are acivaed; he emperaure alarms are enabled wih he delay Ad; when he door closes, he high emperaure alarm bypass ime afer door open d8 is no se.