



PYTHIA TECHNOLOGIES
data transformation solutions

CONFIGURATION TOOL

CS0-AC2

Version 20220418

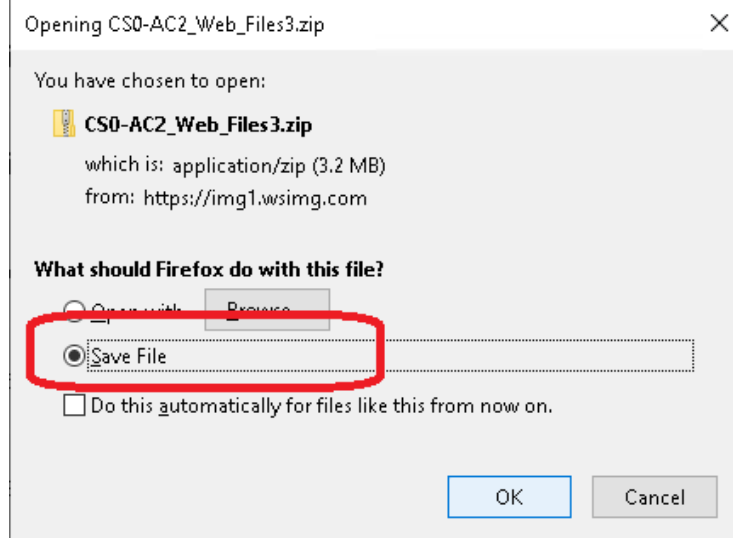
The module is configured via the PTT_CM04P_AC02_Tools.exe tool which can be downloaded from <https://www.pythiatech.com/downloads>. The tool is an “Administrator Command Line” tool and requires Administrator access.

Note: This document assumes you have already connected to the modules with a network cable and can PING the module. If not, refer to the CS0-AC2 Quick Start guide. If your computer is configured for DHCP, it will default to a 169.254.x.x. IP address and you should be able to communicate with the module without configuring a static IP address.

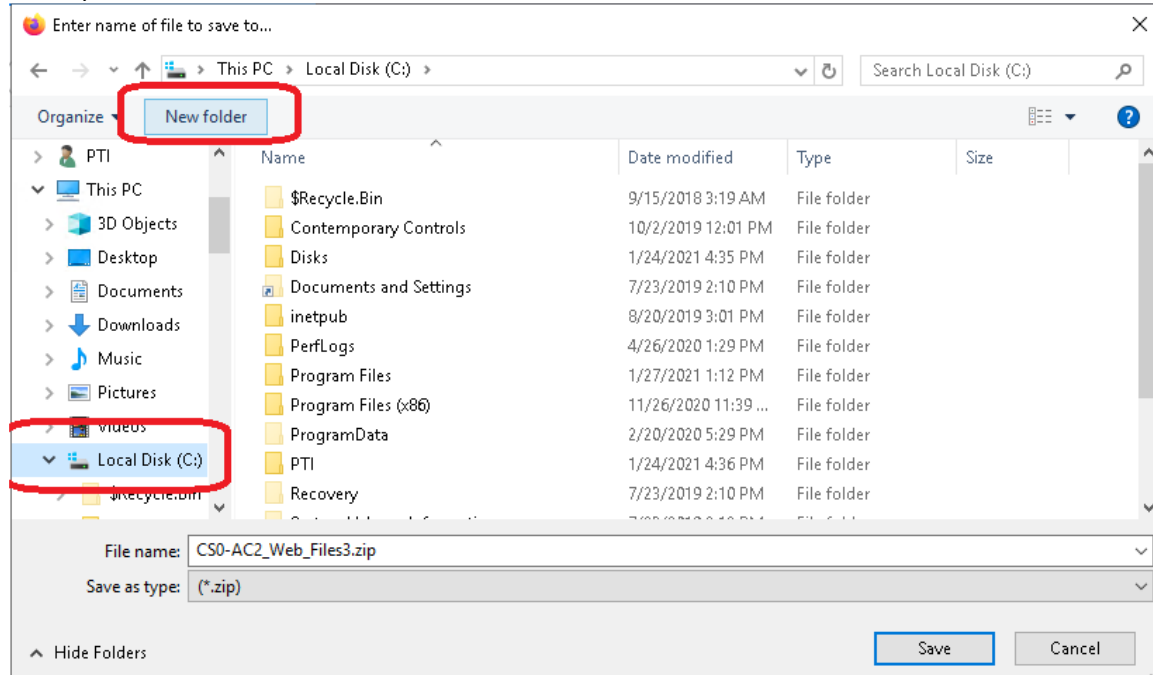
DOWNLOADS

| | |
|---|--------------------------|
| GoT Brochure (pdf) | Download |
| CM03A Documentation and Tools (zip) | Download |
| CM04A Documentation and Tools (zip) | Download |
| CM50 Documentation and Tools (zip) | Download |
| CS0-AC2 Documentation and Tools (12/7/20) (zip) | Download |
| CS0-RSP-06 Documentation and Tools (zip) | Download |

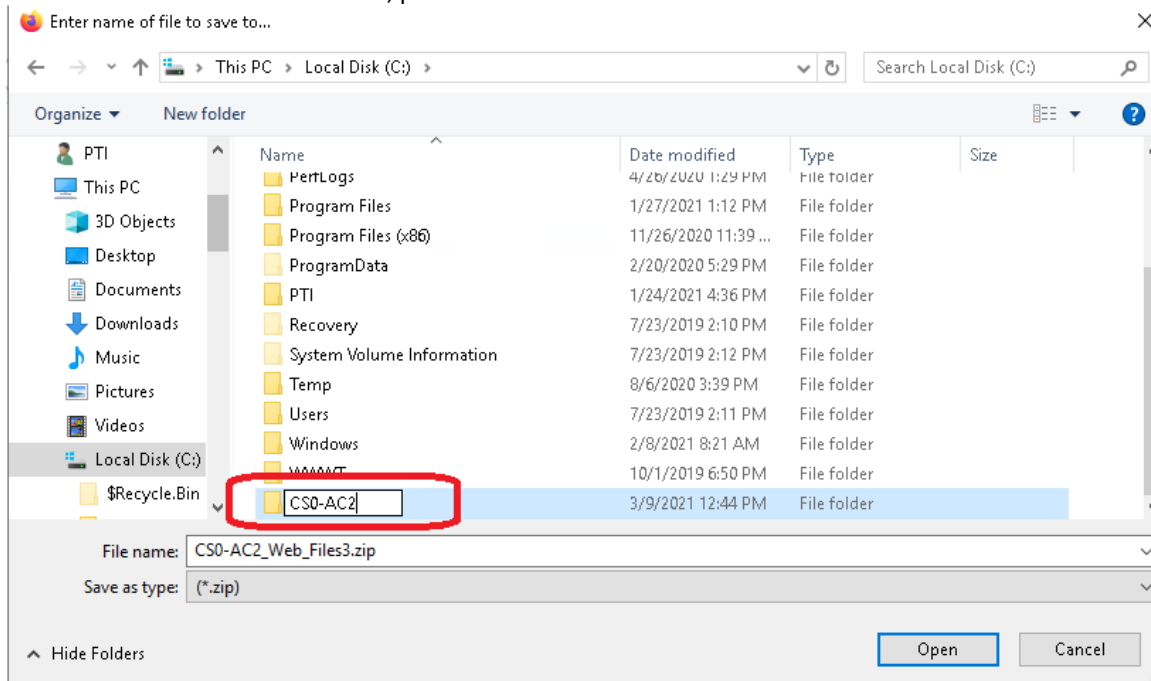
Select "Save the file..." and



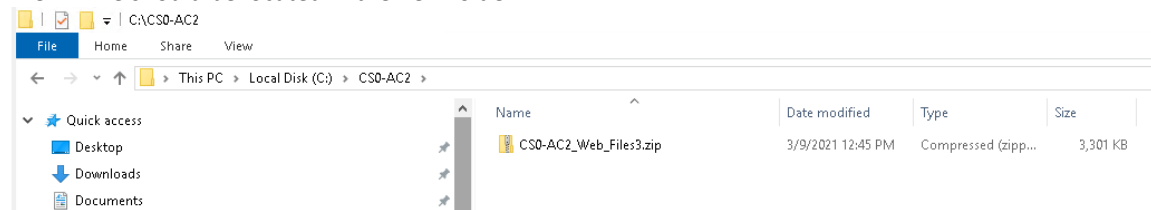
Select your "C:" drive and "New Folder".



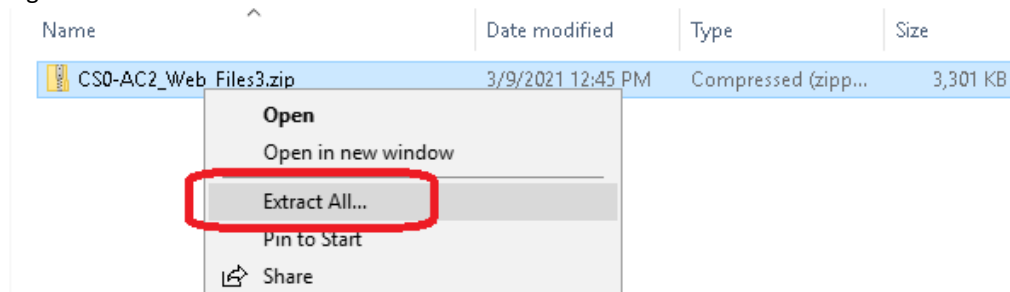
Enter “CS0-AC2” for the new folder, press Enter and select the new folder and select OK.



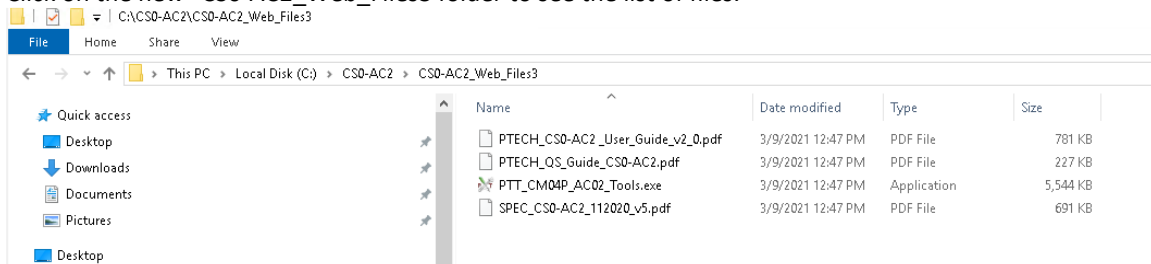
The ZIP file should be located in the new folder.



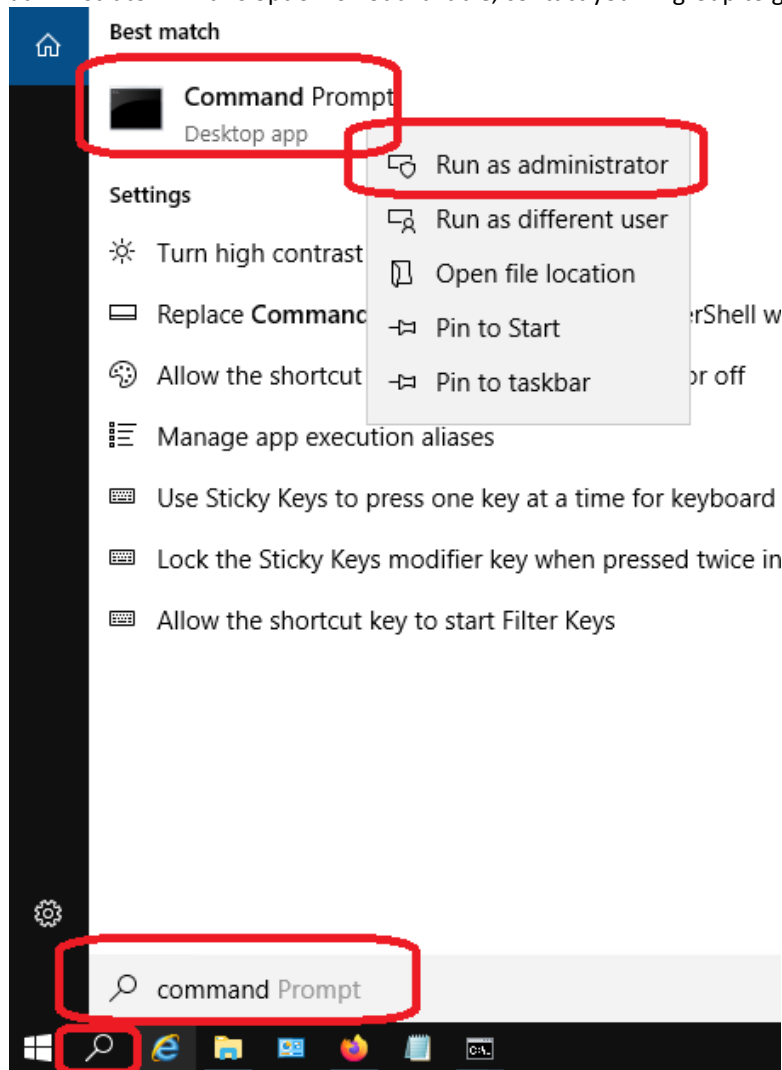
Right-click on the ZIP file and select “Extract All” and “Extract”.



Click on the new “CS0-AC2_Web_Files3” folder to see the list of files.



Click on the Search icon, type “Command”, right-click on “Command Prompt” and select “Run as administrator”. If this option is not available, contact your IT group to give you the required access.



Change directory to the location of the unzipped files.

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.1757]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Windows\system32>CD \CS0-AC2\CS0-AC2_Web_Files3
```

Type DIR to see the list of files in the directory. The configuration tool is PTT_CM04P_AC02_Tools.exe.

```
C:\CS0-AC2\CS0-AC2_Web_Files3>dir
Volume in drive C has no label.
Volume Serial Number is 5005-C9D5

Directory of C:\CS0-AC2\CS0-AC2_Web_Files3

03/09/2021  12:47 PM    <DIR>          .
03/09/2021  12:47 PM    <DIR>          ..
03/09/2021  12:47 PM                799,272 PTECH_CS0-AC2_User_Guide_v2_0.pdf
03/09/2021  12:47 PM                231,899 PTECH_Q5_Guide_CS0-AC2.pdf
03/09/2021  12:47 PM            5,676,544 PTT_CM04P_AC02_Tools.exe
03/09/2021  12:47 PM                707,063 SPEC_CS0-AC2_112020_v5.pdf
               4 File(s)              7,414,778 bytes
               2 Dir(s)  91,776,036,864 bytes free
```

NOTE: To avoid the popup warning, us the “nowarn” option before any command option on the command line as shown in the examples below.

Type the command name to see a list of commands and options.



```
C:\CS0-AC2\CS0-AC2_Web_Files3>PTT_CM04P_AC02_Tools.exe nowarn
```

The panel is configured with the following defaults:

- Unit 1 = Primary, N.O. connection
- Unit 2 = Standby, N.O connection
- Failover = Enabled
- Latch Primary Alarm = Enabled
- Latch Primary On = Enabled
- Auto Changeover = Enabled, Wednesday @ 9am
- Temperature Staging = Disabled

CONFIGURATION COMMANDS

To see additional for information for each command option, type

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPHELP

To see current module configuration,

IPGETCONFIG <ip_address>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPGETCONFIG 169.254.254.1

Step 1: Configure module IP address if required.

IPSETIP <existing_ip_address> <new_ip_address> <new_netmask> <new_gateway>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETIP 169.254.254.1 192.168.1.1 255.255.255.0 192.168.1.254

Step 2: Configure module time. Module will sync with current PC time.

IPSETTIME <ip_address>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETTIME 169.254.254.1

Step 3: Configure each Unit Cycle Time – default is 10-minutes.

IPSETUNITSCYCLETIME <ip_address> <cycle_minutes>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETUNITSCYCLETIME 169.254.254.1 5

Step 4: Configure Primary unit's Alarm Delay as "0-600 seconds" - default is 10-seconds.

IPSETALARMDELAY <ip_address> <delay_seconds>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETALARMDELAY 169.254.254.1 30

Step 5: Configure Primary unit to Latch On in alarm as "0=NO (default)", "1=YES".

IPSETLATCHPRIMARYON <ip_address> <latch_mode>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETLATCHPRIMARYON 169.254.254.1 1

Step 6: Configure each unit's Mode as "0=OFF (default)", "1=ON", "2=STANDBY" or "3=PRIMARY".

IPSETUNIT1MODE <ip_address> <unit_mode>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETUNIT1MODE 169.254.254.1 3

IPSETUNIT2MODE <ip_address> <unit_mode>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETUNIT2MODE 169.254.254.1 2

Step 7: Configure each unit's wiring Connection as "0=Normally Open (default)", "1=Normally Closed".

IPSETUNIT1CONNECTION <ip_address> <unit_connection>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETUNIT1CONNECTION 169.254.254.1 0

IPSETUNIT2CONNECTION <ip_address> <unit_connection>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETUNIT2CONNECTION 169.254.254.1 0

Step 8: Configure Failover as "0=DISABLED", "1=ENABLED (default)".

IPSETFAILOVER <ip_address> <fail_mode>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETFAILOVER 169.254.254.1 1

Step 9: Configure Auto Changeover as "0=Disabled (default)", "1=Day of Week" "2=Day of Month" "3=Days".

IPSETAUTOCHANGEOVER <ip_address> <auto_mode>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETAUTOCHANGEOVER 169.254.254.1 3 **Days

Step 10A: Configure Auto Changeover Period as "Day of Week (0-6 0=Sunday)", "Day of Month (1-31)", "Days (1-62)".

IPSETAUTOCHANGEPERIOD <ip_address> <auto_period>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETAUTOCHANGEPERIOD 169.254.254.1 30 **Days

Step 10B: Configure Auto Changeover Hour as "0-23 (default=0)".

IPSETAUTOCHANGEOVER <ip_address> <auto_mode>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETAUTOCHANGEHOUR 169.254.254.1 12

Step 10C: Configure Auto Changeover Minute as "0-59 (default=0)".

IPSETAUTOCHANGEMIN <ip_address> <auto_minute>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETAUTOCHANGEHOUR 169.254.254.1 30

Step 11: Configure Temperature Staging as "0=DISABLED (default)", "1=ENABLED".

IPSETTEMPSTAGE <ip_address> <tempstage_mode>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETTEMPSTAGE 169.254.254.1 1

Step 11A: Configure Temperature Staging Temperature 1 as "45-95 (default=75)".

IPSETTEMPSTAGE1 <ip_address> <temperature>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETTEMPSTAGE1 169.254.254.1 70

Step 11B: Configure Temperature Staging Temperature 2 as "45-95 (default=80)".

IPSETTEMPSTAGE2 <ip_address> <temperature>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETTEMPSTAGE2 169.254.254.1 78

Step 11C: Configure Temperature Staging Temperature Range as "0-10 (default=5)".

IPSETTEMPSTAGERANGE <ip_address> <tempstage_range>

Ex: PTT_CM04P_AC02_TOOLS NOWARN IPSETTEMPRANGE 169.254.254.1 2

COMMANDS

SHOWDEFAULTS
SHOWMODBUSREGISTERS
SHOWBACNETOBJECTS

IP Commands:

IPHELP
IPSCAN
IPGETCONFIG <ip_address>
IPSETIP <existing_ip_address> <new_ip_address> <new_netmask> <new_gateway>
IPSETMODBUS <ip_address> <modbus_address>
IPSETBAUD0 <ip_address> <new_baud_rate0>
IPSETBAUD1 <ip_address> <new_baud_rate1>
IPSETREBOOT <ip_address>
IPSETBUZZER <ip_address>
IPSETBUZZERVOLUME <ip_address> <buzzer_volume>
IPSETTIME <ip_address>
IPSETUNITSCYCLETIME <ip_address> <cycle_minutes>
IPSETLATCHPRIMARYALARM <ip_address> <latch_mode>
IPSETLATCHPRIMARYON <ip_address> <latch_mode>
IPSETALARMDELAY <ip_address> <delay_seconds>
IPSETUNIT1MODE <ip_address> <unit_mode>
IPSETUNIT1CONNECTION <ip_address> <unit_connection>
IPSETUNIT2MODE <ip_address> <unit_mode>
IPSETUNIT2CONNECTION <ip_address> <unit_connection>
IPSETFAILOVER <ip_address> <fail_mode>
IPSETAUTOCHANGEOVER <ip_address> <auto_mode>
IPSETAUTOCHANGEPERIOD <ip_address> <auto_period>
IPSETAUTOCHANGEHOUR <ip_address> <auto_hour>
IPSETAUTOCHANGEMIN <ip_address> <auto_minute>
IPSETTEMPSTAGE <ip_address> <tempstage_mode>
IPSETTEMPSTAGE1 <ip_address> <temperature>
IPSETTEMPSTAGE2 <ip_address> <temperature>
IPSETTEMPSTAGERANGE <ip_address> <tempstage_range>

Options:

<baud_rate0>
9600 19200 38400
<baud_rate1>
9600 19200 38400 56000 115200
<modbus/mstp_address>
Modbus=1-254 MSTP=1-126
<buzzer_volume>
1=LOW 2=MED 10=HIGH (1-10)
<cycle_minutes>

0-59
 <latch_mode>
 0=No 1=Yes
 <delay_seconds>
 0-599
 <unit_mode>
 0=Off 1=On 2=Standby 3=Primary
 <unit_connection>
 0=Normally Open 1=Normally Closed
 <fail_mode>
 0=Disabled 1=Enabled
 <auto_mode>
 0=Disabled 1=Day of Week 2=Day of Month 3=Days
 <auto_period>
 Day of Week(0-6) Day of Month(1-31) Days(1-62)
 <auto_hour>
 0-23
 <auto_minute>
 0-59
 <tempstage_mode>
 0=Disabled 1=Enabled
 <temperature>
 45-95
 <tempstage_range>
 0-10

COMMANDS HELP

IPHELP

Show HELP for IP commands

IPSCAN

Scan available IP addresses for module - local subnets only

IPGETCONFIG <ip_address>

Get module configuration

IPSETIP <existing_ip_address> <new_ip_address> <new_netmask> <new_gateway>

Set module IP address configuration

IPSETMODBUS <ip_address> <modbus_address>

Set module Modbus address

IPSETBAUD0 <ip_address> <new_baud_rate0>

Change module baud rate

IPSETBAUD1 <ip_address> <new_baud_rate1>

Change module baud rate

IPSETREBOOT <ip_address>

Reboot module

IPSETBUZZER <ip_address>

Silence Buzzer

IPSETBUZZERVOLUME <ip_address> <buzzer_volume>

Configure Buzzer Volume

IPSETTIME <ip_address>

Sync module time with PC time

IPSETUNITSCYCLETIME <ip_address> <cycle_minutes>

Configure units cycle On/Off time

IPSETLATCHPRIMARYALARM <ip_address> <latch_mode>

Configure latch primary alarm

IPSETLATCHPRIMARYON <ip_address> <latch_mode>
 Configure latch primary on

IPSETALARMDELAY <ip_address> <delay_seconds>
 Configure alarm delay

IPSETUNIT1MODE <ip_address> <unit_mode>
 Configure unit 1 mode

IPSETUNIT1CONNECTION <ip_address> <unit_connection>
 Configure unit 1 wiring connection

IPSETUNIT2MODE <ip_address> <unit_mode>
 Configure unit mode

IPSETUNIT2CONNECTION <ip_address> <unit_connection>
 Configure unit 1 wiring connection

IPSETFAILOVER <ip_address> <fail_mode>
 Configure failover operation

IPSETAUTOCHANGEOVER <ip_address> <auto_mode>
 Configure autochangeover operation

IPSETAUTOCHANGEPERIOD <ip_address> <auto_period>
 Configure autochangeover period

IPSETAUTOCHANGEHOUR <ip_address> <auto_hour>
 Configure autochangeover hour

IPSETAUTOCHANGEMIN <ip_address> <auto_minute>
 Configure autochangeover minute

IPSETTEMPSTAGE <ip_address> <tempstage_mode>
 Configure temperature staging operation

IPSETTEMPSTAGE1 <ip_address> <temperature>
 Configure stage 1 temperature

IPSETTEMPSTAGE2 <ip_address> <temperature>
 Configure stage 2 temperature

IPSETTEMPSTAGERANGE <ip_address> <tempstage_range>
 Configure temperature range

EXAMPLE CONFIGURATION

Model: CM04P (74-10)
Serial #: 000214C5
Firmware Version: 53.1
Hardware Version: 10
Current Module Time: Tuesday 11-03-2020 13:21:32

IP Mode: STATIC
IP Address: 169.254.254.1
Netmask: 255.255.0.0
Gateway: 169.254.254.254

Modbus/BACnet MSTP Address: 2
Baud Rate0: 19200
Protocol0: BACnet MSTP
Baud Rate1: 19200
Protocol1: Modbus/RTU

Setpoints:
Buzzer = On
Buzzer Volume = 3
Unit Cycle Time = 10
Primary Alarm Delay = 5
Latch Primary Alarm = Yes
Latch Primary On = Yes
Unit 1 Mode = Primary
Unit 1 Connection = Normally Open
Unit 2 Mode = Standby
Unit 2 Connection = Normally Open

Failover Mode = On
Autochangeover Mode = Day of Week
Autochangeover Period = 3
Autochangeover Hour = 09
Autochangeover Minute = 00
Temperature Staging Mode = Off
Temperature Stage 1 = 75
Temperature Stage 2 = 80
Temperature Range = 5

Status:
Unit 1 = On
Unit 2 = Off
Unit Hold = Off
Summary Alarm = Off
Unit 1 Alarm = Off
Unit 2 Alarm = Off
Buzzer = Off
Temperature = 73.94
Stage = 0

Contacts

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