Interface View

Figure 15.20 - Interface View in Menu

The Interface View tab shows information on the Controller's IF board and its various power supplies. See software manual for more information on each status.

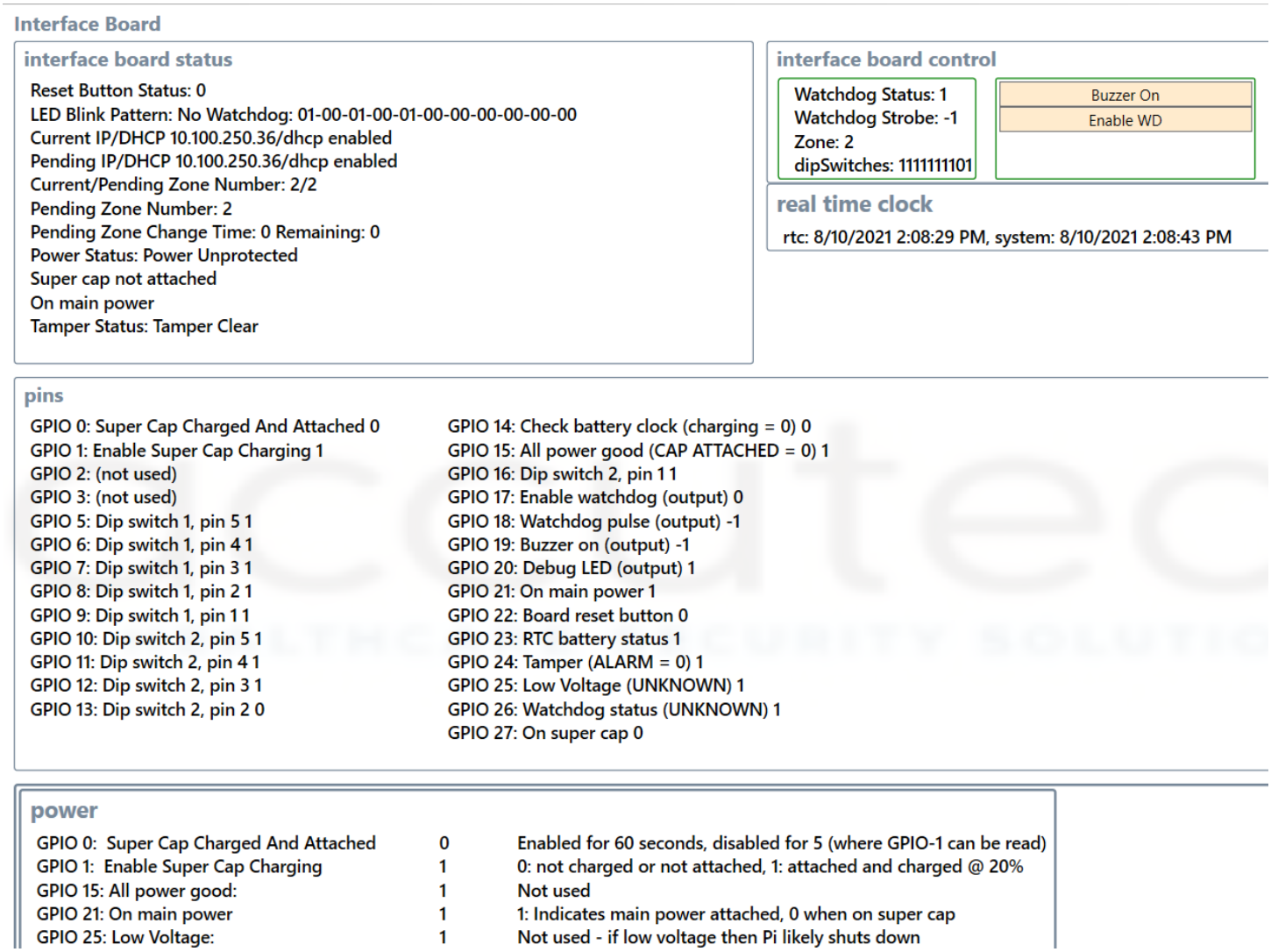

Figure 15.21 - Interface View Screen Example

Remote Control View

Figure 15.22 - Remote Control View in Menu

The Remote Control View tab is used to update the Controller's firmware, when necessary. It also allows you to reboot the Controller via the Reboot Options section.

Select Files – used to select the updated firmware files

Upload Files – Uploads the selected files to the Controller

Complete Upgrade – Completes the firmware update via the process selected in the Restart Options checkboxes.

Restart Applications – Restart the Controller's applications.

Reboot – Soft-reboots the Controller, rebooting the OS without powering down/up the Controller.

Repower (via watchdog) – Hard-reboot, which causes power to be cut for approximately 10 seconds before restarting.

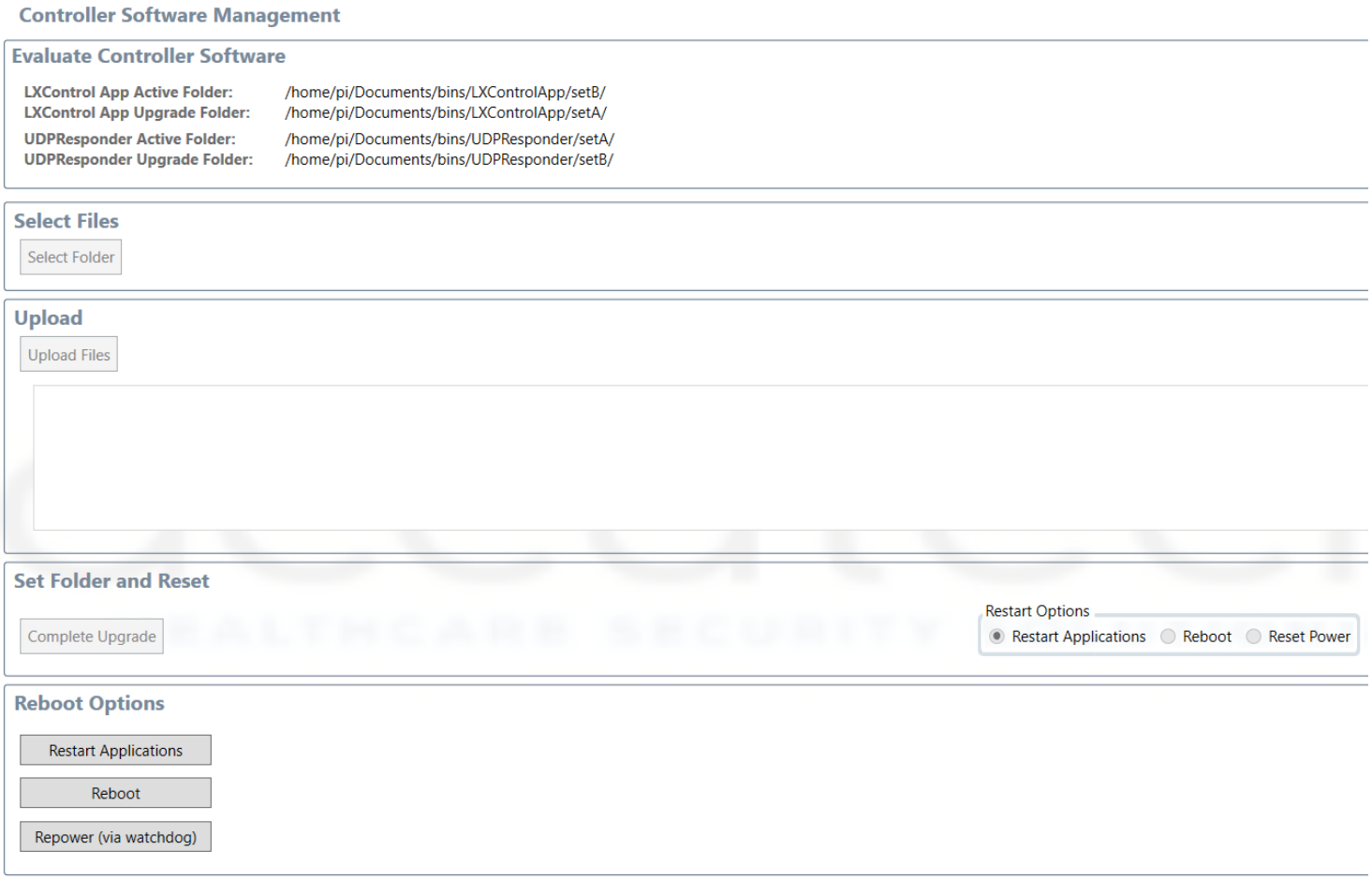

Figure 15.23 - Remote Control View Screen Example

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HEALTHCARE SECURITY SOLUTIONS

Chapter 16
Troubleshooting

Troubleshooting

This section contains solutions to possible system problems. As many system components (and therefore functions) are interrelated, you may be referred back and forth to different sections to complete the troubleshooting.

Use the headings to locate your problem. Follow the solution list down until the problem is remedied. You may not need to perform all solutions.

Before you start

1) Check all connections and wiring of affected component(s)
2) Verify 110VAC power to the Power Supply
3) Verify 15VAC to Controller
4) Verify 15VDC to IO Board

LF Antenna

No Tx indicator (LED 5, 7, 9 out on IF board)

Is the LF Antenna getting power?

Verify 15VDC to the LF Antenna.

Is the LF Antenna tuned correctly?

Verify that the LF Antenna is tuned properly (see LF Antenna chapter)

Is Tx Gain set too low?

Use the Accutech Software to increase the Tx Gain.

Is the LF Antenna damaged?

Replace the antenna (from another zone, or with a spare)

Is a cable broken or pinched?

Check for broken or pinched cables. Replace cables as necessary.

Is RS485 wired properly?

Verify that all RS485 connections are wired correctly with the proper cables.

If there is still no Tx indicator...

Tx may be blown on the Controller's IF Board.
Receiver

No Rx indicator (LED 6, 8, 10 out on IF board)

Is the Receiver addressed correctly?

Verify that the Receiver is addressed properly (see Receiver chapter)

Is the Receiver damaged?

Replace the Receiver (from another zone, or with a spare)

Is the Receiver getting power?

Verify 15VDC from the Controller's IF board.

Is a cable broken or pinched?

Check for broken or pinched cables. Replace cables as necessary.

Is RS485 wired properly?

Verify that all RS485 connections are wired correctly with the proper cables.

If there is still no Rx indicator...

Rx may be blown on the Controller's IF Board.

Tags

Tag is not detected

Use a BTAD to verify Tag is turned on and functioning properly.

Tag (turned on, functioning) is not detected

See "No Tx indicator" and "No Rx indicator" sections.

False Tag Detection (nuisance alarms)

Is another zone setting this zone into alarm?

Implement stagger tuning (see LF Antenna chapter)

Are patient rooms adjacent to the monitored zone?

Reduce LF Antenna sensitivity (LF Antenna chapter) and/or reduce Receiver sensitivity (chapter 5)

Keypad

Does not reset

Is the correct code being entered?

Verify code.

Was the incorrect code entered 3 times?

If so, the Keypad will lock the user out for 90 seconds (Green LED blinks during this time)

Is a cable broken or pinched?

Check for broken or pinched cables. Replace cables as necessary.

Is the Keypad damaged?

If so, replace the Keypad (from another zone, or a space)

Tx Supervise alarming (LED

Are metal arts in front of the antennas?

Remove metal carts from area.

Is the antenna damaged?

Replace the antenna (from another zone, or with spare)

Is a cable broken or pinched?

Check for broken or pinched cables. Replace cables as necessary.

Is the LF Antenna tuned correctly?

Verify that the LF Antenna is tuned properly (see LF Antenna chapter)

Is Tx Supervise threshold set too high?

See tuning procedures (LF Antenna chapter)

Alarms

Door Ajar Indicator Alarming (LED 9 on IO Board)

Is the door propped open?

Check.

Is the door a high-traffic zone?

Extend Door Ajar Delay Time (see Software chapter)

Is monitored zone an Elevator/Hallway with a PIR?

Disconnect Door Ajar feature by removing wire to Receiver on both ends.

Loiter indicator alarming (LED10 on IO Board)

Is a patient in the monitored zone?

Address situation.

Is a patient in a room next to the monitored zone?

Reduce the LF Antenna Tx field sensitivity (see Software chapter)

No Functions Working

If none of these features are working...

Check output on Controller with DMM.

If outputs are good, check wiring and connections.

If any outputs are not functioning, Controller may need replacing.

Lock Operation Verification

From Controller's IO board:

5) Verify 12VDC output at P10

6) Label and remove wires in P4 connector

7) Jumper "Fire +V In" to "Fire +V Out)

8) With a Tag in monitored zone, use an ohmmeter to check for a closed contact across "Lock N.O." and "Lock Comm"

9) When you remove Tag from zone, this contact should then open

10) If these actions do not occur then the Controller's IO board may be defective

11) If board tests good, continue to "At Lock:"

At 3101 Lock:

1) Verify 12VDC at Pins 1, 14, & 26 (Green LED1 should be on in non-energized state)

2) Using a jumper wire or needle-nose pliers, jumper Pin 3 to Pin 4. (This should energize the Lock; the Green LED14 will change to Red)

3) Use a jumper wire or needle-nose pliers to short Pins 5 & 6. (This will de-energize or reset Lock; LED14 will turn off for as long as pins 5 & 6 see a closed contact)

NOTE: LED2 should be lit at all times, if it is flashing or not illuminated then the Lock board is defective.

LED1 (Com Error)

LED1 (Com Error) on the IO board indicates if there is a problem with the connection between the IO Board and IF Board.

Check the wiring between the IO Board (P1) and the IF Board (TB1). See chapter X.

LED11 (Supervisor Indicator)

LED11 (Supervisor Indicator) on the IO board indicates if there is a problem with the system's LF Antenna(s) and/or Receiver(s).

LED11 is a visual indicator of Supervisor status; therefore you can troubleshoot without having to listen to the piezo buzzer alarm. You may silence the piezo buzzer alarm via the Accutech Software.

To determine what the problem is, review the Accutech Software (chapter X).

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BR5200 Door Controller

The BR5200 Door Controller is mounted at egress zones to interface with system receivers and zone components. It includes an IO Board, IF Board, and Microprocessor within a white metal case. The Controller is connected to a supercapacitor to prevent corruption of data upon power loss, and the case includes a tamper switch to prevent unauthorized access to its internal components.

Electrical

Power Requirements: 19.5VAC @ 1A max

Mechanical

Construction: Metal Case
Enclosure size: 16.75” x 9.60” x 3.25”
Weight (including enclosure, supercapacitor, tamper switch): approximately 9 lbs

Operating Characteristics

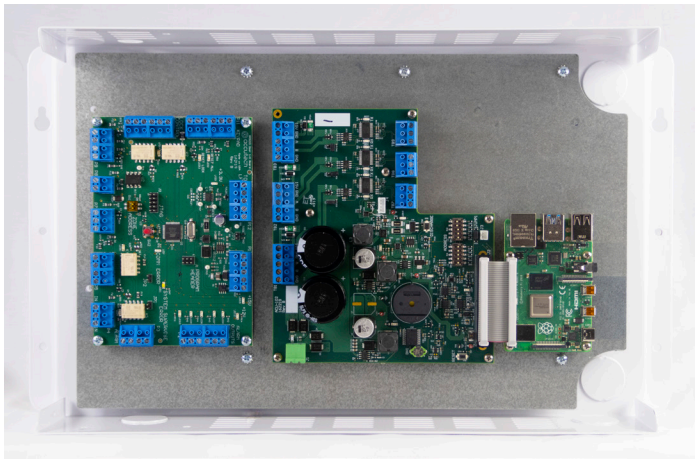
Operating Temperature: 32° to 120° Fahrenheit

Intended for Indoor Use Only

Duty Cycle

Rated for continuous use.

The BR5200 Door Controller (with cover)
Model: BR5200DC
Part Number: 700335



The BR5200 Door Controller (without cover)

Accutech reserves the right to substitute comparable components without notice.

BR5200 RXC Controller

The BR5200 RXC Controller allows the connection of additional receivers to a system when there are not enough ports available on the BR5200 Door Controller(s). RXC Controllers feature an IF board and Microprocessor within a metal case. The controller is connected to a supercapacitor to prevent corruption of data upon sudden power loss, and the case includes a tamper switch to prevent unauthorized access to its internal components.

Electrical

Power Requirements: 19.5VAC @ 850mA max

Mechanical

Construction: Metal Case
Enclosure size: 16.75” x 9.60” x 3.25”
Weight (including enclosure, supercapacitor, tamper switch): approximately 8.8 lbs

Operating Characteristics

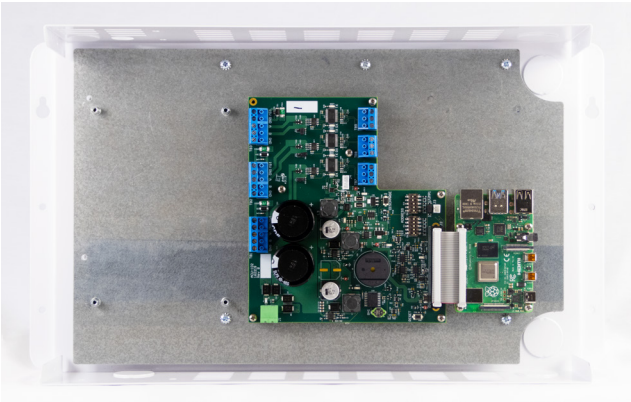
Operating Temperature: 32° to 120° Fahrenheit

Intended for indoor use only

Duty Cycle

Rated for continuous use.

The BR5200 Rx Controller (with cover)
Model: BR5200RXC
Part Number: 700336



The BR5200 RXC Controller (without cover)

BR5230 LF Antenna

The BR5230 LF Antenna is mounted on the wall at an egress zone and creates a Tx Activation Field. The field excites any Tag that enters its range, prompting the Tag to send a signal to system receivers. This signal is transmitted to the controller, which then initiates actions such as locking doors, deactivating elevators, and triggering system alarms.

Electrical

Operating Voltage: Minimum 15VDC
Current Consumption: Maximum 350 mA

Terminal Block Ratings

Maximum 300 V, 10A on a single pin

Mechanical

Construction: Injection molded ABS
Size: 17.50” x 7.00” x 1.50”
Weight: 1.88 pounds
Mounting Surface: Four 3/16” screws

Operating Characteristics

Tuning Frequency: Nominal 131KHz
(127KHz to 138KHz for stagger tuning)
Exciter Range: up to 10 feet radius (360°)
Communication: RS485
Baud Rate: 115200 bps

FCC ID: JM7-HWHY-662019
IC: 2683A-662019

Environmental

Operating Temperature: 32° to 120° Fahrenheit
Intended for indoor use only

Duty Cycle

Rated for continuous use.

BR5230 LF Antenna
Model: BR5230LF
Part Number: 762019

Accutech reserves the right to substitute comparable components without notice.

BR52PS195 Power Supply

The BR52PS195 Power Supply provides power to the system controller, which then distributes that power to other system components. The Power Supply can be hardwired, if needed, and can be mounted on a server rack within an equipment room.

Electrical

Input: 120VAC, 5A on Emergency Power
Output: 19.5VAC @ 5A

Mechanical

Construction: Metal Case
Enclosure size: 4.83” x 3.075” x 6.60”
Weight: 4.81 pounds

Environmental

A Power Supply operates best in an ambient temperature between 35 and 90 degrees Fahrenheit. Operation outside of this range may cause unexpected or undesirable results, including premature failure.

Intended for indoor use only.

Duty Cycle

Rated for continuous use.

- ULXXX and CSA XX.X #XXX Class 2 Power Supply
- Input: 120VAC, 60 Hz, 2A with a 2A resettable circuit breaker
- Each BR52PS195 Power Supply comes with a grounded 6-foot power cord for ease of installation.
- A three-prong 120-Volt outlet with emergency back-up should be located within 6 feet of each Power Supply.

Model: BR52PS195
Part Number: 500255

Accutech reserves the right to substitute comparable components without notice.

BR5240 Receiver

The BR5240 Receiver picks up signals from system tags and relays them to a system controller. It is mounted onto a facility's ceilng (or above a drop ceiling, if possible). Receivers can be connected in buses of up to three receivers, spaced approximately 65 feet apart. Each receiver unit contains two receiver boards which are addressed via dip switch configuration.

When choosing the location and number of Auxiliary Receivers, be sure to consider the following:

- the facility's structure (i.e. concrete, metal lathe as opposed to drywall walls or foil-backed ceiling tiles).
- keep a minimum distance of 4 feet away from fluorescent lighting and air handling equipment.
- Band removal alarms can be generated anywhere within a facility, not just exit points. This includes bathrooms, visiting areas, storage rooms, and laundry rooms.

Electrical

Operating Voltage: 15VDC @ 140mA
Communication: RS485 Half Duplex
Baud Rate: 230400

Mechanical

Construction: Injection molded ABS
Size: 7.25" x 7.25" x 1.76"
Weight: 12.7 oz

Operating Characteristics

Receive Frequency: 418 MHz
FCC ID: JM7-HWHY-662220
IC: 2683A-662220

Environmental

Operating temperature: 32° to 120° Fahrenheit
Intended for indoor use only.

Duty Cycle

Rated for continuous use.

BR5240 Receiver (with cover)
Part Number: 762220

BR5240 Receiver (without cover)

Accutech reserves the right to substitute comparable components without notice.

BR52 Tags

BR52 Tags, only used in the BR5200 system, are small wristwatch-sized devices worn by an infant. They feature beacon technology, which sends a signal every 1.5 seconds to “check in” with the BR5200 system. They also feature Intelli-Band Technology, which will alarm if the band is loosened, cut, saturated, removed, or tampered with. Beacon Tags are assigned to a specific infant via the Tag Test Station and Accutech Software. Once assigned, the computer associates a name, room number, and any other pertinent information about the infant with that tag.

Electrical

BR52 Tags operate by internal battery. They can be powered on/off with a BTAD.

Mechanical

Construction:
Size: 1.25” x 1.75” x 0.75”
Weight: 0.88 oz

Operating Characteristics

Transmit Frequency: 418 MHz
Receive Frequency: 127-138 kHz
FCC ID: JM7-HWHY-662020
IC: 2683A-662020

Environmental

Operating Temperature: 32º to 120º Fahrenheit
Intended for indoor use only.

Attachment

BR52 Tags are attached to infants with an elastic cloth band. The BR band has conductive fiber stripes that must be in contact with both the infant’s skin and the gold contacts on the Tag. The band must be routed properly through the Tag case for the system to function properly. Tags are typically attached to a wrist or ankle. For smaller infants, placing the Tag around the thigh is also acceptable. BR52 Tag bands are for one-time use only.

Model: BR52 Tag
Part Number: 692015

Maintenance

- BR52 Tags are reusable but they must be thoroughly cleaned and sanitized between applications. Acceptable cleaning methods: Antibacterial wipes or Hydrogen peroxide (wipe, do not soak)
- Always rinse and dry a tag to remove any cleaning solutions to prevent residual chemicals from soaking into the plastic. This can cause brittleness, thereby, reducing the life of the tag.
- If the band becomes soiled, replace the band and clean the Tag.

Testing

There are several ways to test a tag:

- Enter a monitored zone (Software will report.)
- The Keypad’s Auxiliary LED (Yellow) will light when a Tag is detected.

Storage

To preserve battery life and prevent nuisance alarms, BR52 Tags should be turned off with a BTAD stored away from sources of electrical noise, and stored in a metal container with lid. Extra Tag bands should be stored in a clean and dry environment.

BR5200 Soft Bracelet

The Cuddles Soft Bracelet is a latex free, light-weight, non-allergenic, self-adjusting band that fits snugly and comfortably around the ankle or wrist. Made of an ultra-soft polyester blend, the bracelet won't cut or chafe the skin, and won't fall off due to movement or changes in weight. In the event of removal or cutting, the Soft Bracelet, in conjunction with the BR52 tag, immediately activates an alarm — preventing abductions and ensuring the continued safety and security of the infant wearing it.

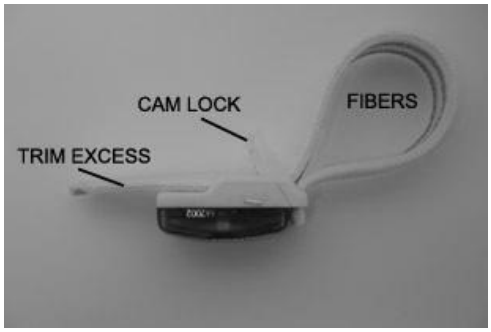
Dimensions:

Size: 8.00" x 0.700" x 0.100"
Weight: 0.125 ounces

Material:

Lycra - soft blue polyester blend with silver coated nylon fiber

Cuddles Soft Bracelet (YBRBAND) - 25 Pack
Part Number: 100908



As applied to a BR Tag

Accutech reserves the right to substitute comparable components without notice.

BTAD (Tag Activator/Deactivator)

The BTAD is a handheld device that activates and deactivates BR5200 system Tags. The BTAD is also used as a testing device for Tags. It incorporates a keypad (for security purposes) and an internal Tag that will cause an alarm if it moves into or through a monitored egress zone. A code must be entered into the BTAD to activate/deactivate a Tag.

Electrical

Battery: 3.7 VDC 1600 mAh (5.92 Wh) lithium ion battery pack. (DO NOT attempt to repair or rebuild/replace the cells within)

Component Cell: UL1642
Test Specification: UL2054:2004 R9.11
Battery Shipping Compliance: UN38.3
Maximum charging current: 0.8 A
Nominal charging voltage: 5.0 V

Charging Cable: USB Type C - charges via computer USB port or a 120 VAC to 5VDC/500mA adaper (not included). Note: Using a charger that provides less than the recommended 500mA can work, but will take longer than normal to charge.

Mechanical

Size: approximately 5.50” x 3.00” x 1.25” (with boot)
Weight: 7 ounces

Operating Characteristics

Transmit Frequency: 127.0 kHz
Receive Frequency: 418 MHz
Internal Security Tag Transmit Frequency: 418 MHz
Internal Security Tag Receive Frequency: 127-138 kHz

FCC ID: JM7-HWHY-662021
IC: 2683A-662021

Model: BTAD
Part Number: 762021

Environmental

Operating Temperature: 32° to 120° Fahrenheit
Intended for indoor use only.

Accutech reserves the right to substitute comparable components without notice.

KP-103 Keypad

The KP-103 keypad is used to escort residents through a monitored zone and to reset zone equipment once an alarm has occurred. Up to 100 different (4 to 8 digits) user codes can be used to reset the alarm and to activate the Escort function.

Electrical:

Operating Voltage: 12 V OR 24 V AC/DC
Active Current Draw:
- 100 mA Max @ 12 V
- 65 mA Max @ 24 V

Idle Current Draw:
- 9 mA Max @ 12 V
- 17 mA Max @ 24 V

Relay Contact Rating: 10 A @ 28 VDC/120 AC
Cable: minimum 22-gauge, 6-conductor

Mechanical:

Size: 4-5/8” x 2-7/8” x 1-3/8”
Weight: 4.3 ounces
Mounting: Flush or Surface Mount
*Metal box not recommended

Operating Characteristics:

Keypad LED Indicators:

LED	Status	Function
Green	On	Reset active
Yellow	On	Tag Detect active
Red	On	Unit is in alarm

Environmental:

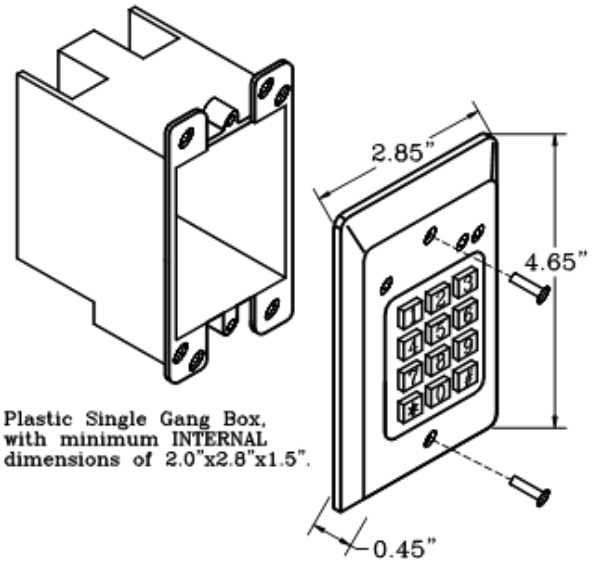
Intended for indoor use only.

Duty Cycle:

Rated for continuous use.

Model Number: KP-103
Part Number: 650209

Conforms to UL STD 294
Certified to CAN/CSA STD C22.2 No. 205
Intertek 4004973



Accutech reserves the right to substitute comparable components without notice.

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KP-403 Keypad

The Keypad is used to escort residents through a monitored zone and to reset zone equipment once an alarm has occurred. Up to 100 different (4 to 8 digits) user codes can be used to reset the alarm and to activate the Escort function.

Electrical:

Operating Voltage: 12 V OR 24 V AC/DC
Active Current Draw:
100 mA Max @ 12V
120 mA Max @ 24V
Idle Current Draw:
10 mA Max @ 12V
22 mA Max @24V
Relay Contact Rating: 10 A @ 28 VDC/120 AC
Cable: minimum 22-gauge, 6-conductor

Mechanical:

Surface Mount Die Cast Metal Black Powder Coated Back Box
Stainless Steel Faceplate with Tamper-Proof screws
Durable Metal Keys are backlit for visibility in dark areas

Operating Characteristics:

Adjustable Relay on Time from 1 to 999 seconds
Two Programmable Relay Outputs
Output 1: 100 User Codes with Code Lengths from 4 to 8 digits
Output 2: 10 User Codes with Code Lengths from 4 to 8 digits Request to Exit feature
Anti-Tailgating feature

Keypad LED Indicators:

LED	Status	Function
Green	On	Reset active
Yellow	On	Tag Detect active
Red	On	Unit is in alarm

Model Number: KP-403
Part Number: 650403

Conforms to UL STD 294
Certified to CAN/CSA STD C22.2 No. 205
Intertek 4004973

Environmental:

Intended for indoor and outdoor use.

Duty Cycle:

Rated for continuous use.

Accutech reserves the right to substitute comparable components without notice.

Magnetic Switch

The Magnetic Switch is used on doors when alarm activation is not desired unless the door is opened.

Electrical:

Operating Voltage: 150 VDC maximum
Contact Rating: 3 watts
Maximum Switch Voltage: 30V AC/DC
Switching
Current: 0.5 amps DC
Cable: needs minimum 22-gauge, 2-conductor

Mechanical:

Size: 2.50” x 0.80” x 0.60”
Weight: 1.2 ounces
Color: Brown
Surface mounted (Flush available)

Operating Characteristics:

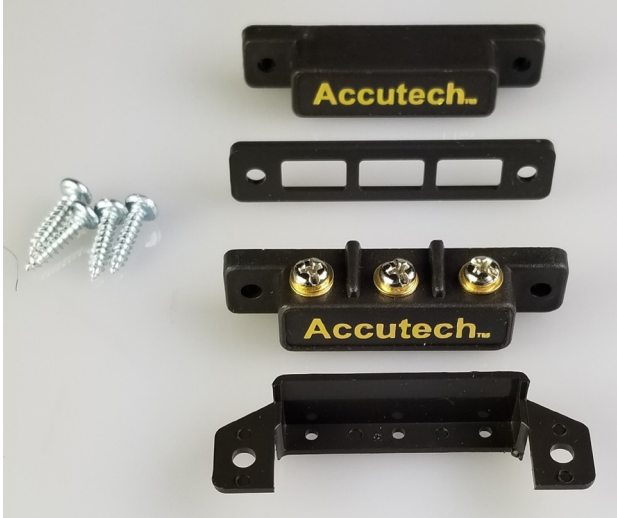
Contacts: N.O., N.C., and Common
Initial contact resistance: 100 ohms maximum
Operating Time: 1.0 ms maximum
Bounce Time: N.C. leg 1.5 ms maximum
N.O. leg: 1.0 ms maximum
Release Time: 0.5 ms maximum
Maximum Operating Frequency: 200 Hz
Insulation resistance: 1 x 10 ohms maximum
Electrostatic capacitance: 1.5 pF maximum

Environmental:

Operating Temperature: 32º to 120º Fahrenheit
Intended for indoor use only.

Duty Cycle:

Rated for continuous use.



Magnetic Switch

Model Number: MCSM
Part Number: 650514

UL Listed:
AMQV.BP2343

Accutech reserves the right to substitute comparable components without notice.

Passive Infrared Reader (PIR)

The Passive Infrared Reader (PIR) is a device that uses an infrared sensor to monitor elevators, hallways, corridors, and passageways. Like the Magnetic Switch, the PIR is used in areas where alarm activation is not desired immediately upon Tag detection. It can also be used in hallways or other areas where a Magnetic Switch would not be feasible.

Electrical:

Operating Voltage: 12V DC
Current: Stand-by 15 mA, In alarm 18mA
Relay Output: N.O./N.C. 2A/28V AC/DC maximum
Cable: needs minimum 22-gauge 4-conductor stranded, non-shielded

Mechanical:

Dimensions: 2.50” x 4.40” x 1.40”
Weight: 3 ounces
Color: White

Operating Characteristics:

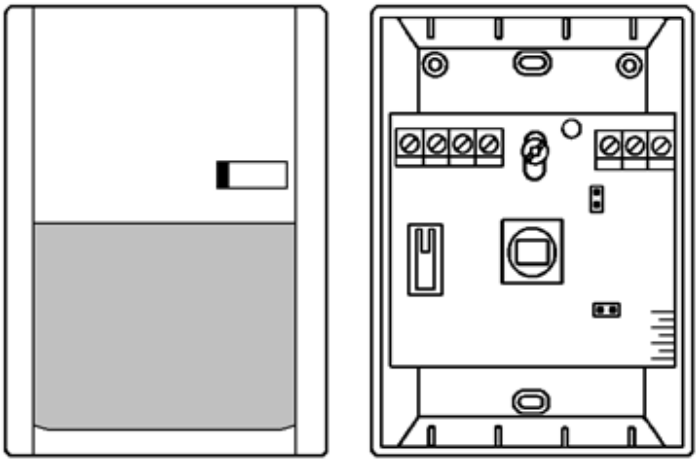
Beam Coverage: Vertical curtain up to 15 x 15 feet. *The beam is adjustable from its normal 0º setting (perpendicular to the unit) up to 12º.

Environmental:

Operating Temperature: 32º to 120º Fahrenheit
Intended for indoor use only.

Duty Cycle:

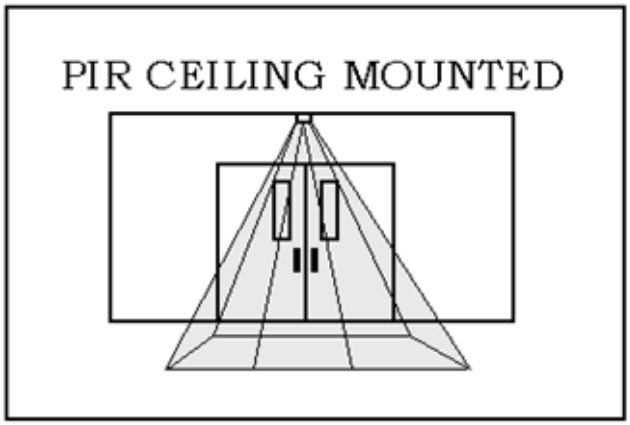
Rated for continuous use.



Passive Infrared Reader (PIR)

Model Number: PIR
Part Number: 300302

UL Listed:
ANSR.BP6082



PIR Ceiling Mounted Coverage Example

Accutech reserves the right to substitute comparable components without notice.

Accutech 3101 Lock

The Accutech 3101 Magnetic Lock is custom-designed to our specifications and cannot be purchased directly from the manufacturer. The 3101 Magnetic Lock will engage when the zone Controller detects a Tag in the Tx Activation Field. The Lock will remain engaged as long as the Tag is in the Tx Activation Field. When the Tag leaves the Tx Activation Field, the Lock will disengage after an adjustable period of time (0-120 seconds).

Safety Features:

The Lock will NOT engage (or will disengage) when the facility's Fire Alarm is activated or power is lost.

The 3101 Magnetic Lock also incorporates Delayed Egress Circuitry that complies with N.F.P.A. 101 Life Safety Codes 5-2.1.6.1. If engaged, the Lock will release within 15 seconds (after 1-3 second nuisance delay) whenever a maintained force (less than 15 pounds required) is applied to the door. An audible tone enunciates both countdown and release. When the Lock releases, the red LED will turn solid green and the alarm will sound continuously.

Electrical:

Operating Voltage: 12V AC/DC
Current Consumption: 300 mA
Cable: non-shielded 18-gauge, 6-conductor

Mechanical:

Lock Size: 3" x 2 ¾" x 11"

Armature Size ½" x 2-5/16" x 7-3/8"

Standard Finish: Satin Aluminum-US28

Weight: 11 US pounds

Environmental:

Operating Temperature: 32º to 120º Fahrenheit
Intended for indoor use only.

Duty Cycle:

Rated for continuous use.

Accutech 3101 Magnetic Lock
Model Number: MLE
Part Number: 700228
Part Number: ACT-M2400 (w/DE Relay)

ANSI/UL294 Access Control Sys. Units:

- FWAX.SA9532
- Auxiliary Locks listed 2N98
- Special Arrangements listed 1M59
- BOCA National Building Code

Operating Characteristics:

Holding Force: 1200 pounds

Once locked, the Lock will disengage when any of the following conditions occur:

- All Tags leave the Tx Activation Field
- A Keypad Reset
- A PBO is activated or key switch at lock location
- The facility's fire alarm is activated.
- Power is removed from the Lock.
- The Central Override is activated.
- When a maintained force (less than 15 pounds required) is applied to the door for an adjustable period of time (1-3 seconds).

ALVY (UL294 6th Ed.)-ACCESS CONTROL SYSTEM UNITS

SPECIAL LOCKING ARRANGEMENTS CATEGORY FWAX

AUXILIARY LOCK CATEGORY GWXT

Fire Panel Interface (FPI) Rev A

The Fire Panel Interface (FPI) ensures the magnetic lock(s) and/or elevator deactivation circuitry will be disengaged in the event of a fire. Accutech follows NFPA codes and regulations; therefore, all Accutech restraints will be disabled in the event of a fire (audial and visual alarms will remain active). For each FPI unit used, one set of dry contacts will be needed from the facility's fire panel. Each FPI unit provides dry contact outputs for up to eight controllers.

Electrical:

Operating Voltage: 12 VDC
Current Consumption: 120 mA maximum
Contact Rating: 1 amp/12 VDC
Cable: needs minimum 22-gauge, 2-conductor non shielded to each Controller

Mechanical:

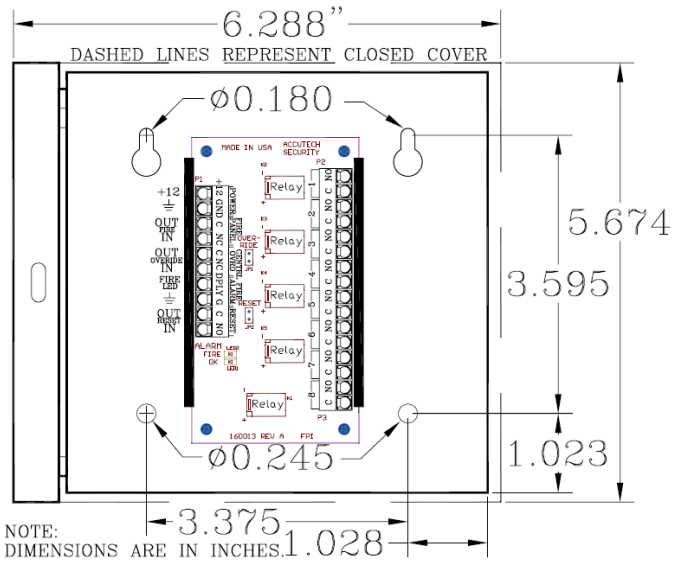
Enclosure size: 6.29" x 5.68" x 2.00"
Weight: 25 ounces

Operating Characteristics:

Fire Panel Alarm State: Open contacts
Contact State: N.O. during alarm state
N.C. during operating state

Environmental:

Operating Temperature: 32º to 120º Fahrenheit
Intended for indoor use only.



Fire Panel Interface (FPI) Rev A
Model Number: FPI
Part Number: 700013

Conforms to UL STD 294
Certified to CAN/CSA STD C22.2 No. 205
Intertek 4004943

Accutech reserves the right to substitute comparable components without notice.

accutech
HEALTHCARE SECURITY SOLUTIONS

Local Alarm

The Local Alarm, (SpectrAlert Advance Series mini-horn by System Sensor) is a sounder intended to attract attention near the monitored zone.

Electrical:

Nominal Voltage: 12VDC OR 24VDC
Operating Voltage Range: 8-33
Input Terminals: 12 to 18AWG

Mechanical:

Dimensions: 4.6”L x 2.9”W x .45”D
Weight: 2.67 oz
Mounting:
Surface: deep single-gang back box
Flush: Standard 4”x4” back box

Environmental:

Operating Temperature: 32º to 120º Fahrenheit
Intended for indoor use only.

The Local Alarm
Part Number: 700216

Sounder Current Draw (ma RMS)

SWITCH SETTING	SOUND PATTERN	VOLUME	8-17V		16-33V	
			DC	FWR	DC	FWR
1	TEMPORAL	HIGH	12	10	17	15
2	TEMPORAL	LOW	10	9	14	13
3	NON-TEMPORAL	HIGH	22	17	29	25
4	NON-TEMPORAL	LOW	17	13	21	19

Operating Characteristics:

- 3kHz Sounder Frequency (nominal)
- Rotary switch on back for setting selection
- High and low volume settings
- Temporal and non-temporal tones
- Listed for ceiling or wall mounting
- Listed to Underwriter’s Laboratories Standard UL 464

Sounder Output (dBA) Reverberant

SWITCH SETTING	SOUND PATTERN	OUTPUT LEVEL	8 VDC	8 VFWR	12 VDC	12 VFWR	16-33 VDC	16-33 VDC
1	TEMPORAL	HIGH	68	67	71	70	78	76
2	TEMPORAL	LOW	66	65	69	68	76	75
3	NON-TEMPORAL	HIGH	72	71	75	74	80	79
4	NON-TEMPORAL	LOW	70	69	73	72	78	77

Elevator Deactivation

Elevator Deactivation Circuitry is designed to prevent someone (or an asset) wearing an Accutech Tag from using an elevator to leave a monitored floor. Using Relays enclosed in the Elevator Deactivation Relay Cabinet, the Elevator Company is able to interface with the Accutech System.

Therefore:

- If a Tag enters a monitored elevator zone, the elevator's call button on that floor will be deactivated
- (Call buttons on other floors are unaffected and no one is restricted from coming to the floor).
- When a Tag is in the zone (or approaches the zone) and the elevator doors are open, an alarm will sound and the elevator doors will remain open.
- If the elevator car is en route to the floor when a Tag approaches the zone, the elevator will arrive on the floor, the door(s) will open, and the system will alarm.

Electrical:

Operating Voltage: 12V DC
Current Consumption: 120 mA maximum
Contact Rating: 10A / 250V AC
Cable: need minimum 22-gauge, 6-conductor

Mechanical:

Construction: Metal case
Enclosure size: 7.80" x 8.25" x 3.75"
Enclosure weight: 3.5 US pounds

Operating Characteristics:

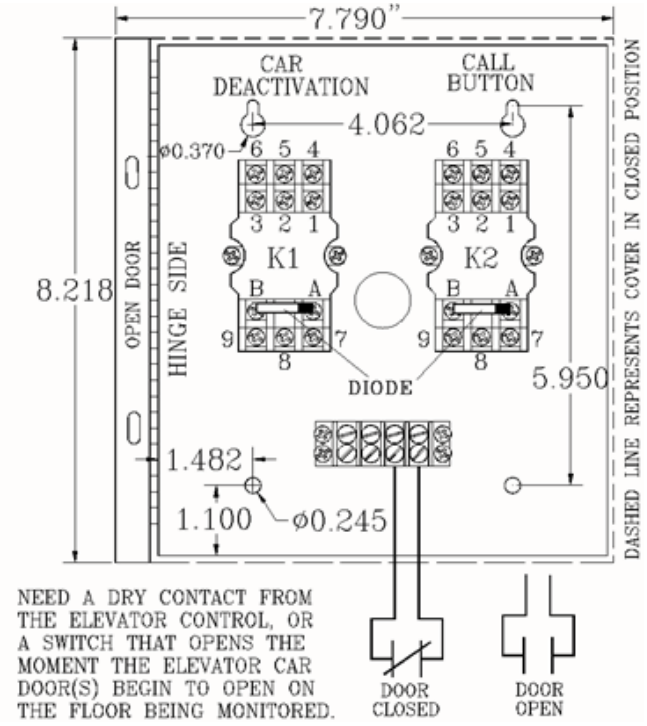
- Dry Contacts supplied by Elevator Company for door switch
- 12V DC Alarm Voltage energizes K1 Relay to deactivate the Car when a Tag is detected and the elevator door is open.
- 12V DC Tag Detect Voltage energizes K2 Relay to deactivate the Call Button when a Tag is detected.

Environmental:

Operating Temperature: 32º to 120º Fahrenheit
Intended for indoor use only.

Duty Cycle:

Rated for continuous use.



Elevator Deactivation
Model Number: ED
Part Number: 700027

Accutech reserves the right to substitute comparable components without notice.