

QCA02X-WG/QCA03X-WG

Wi-Fi 802.11b/g Two/Three Button Call Point Series



The future is here, and it's wireless!

Questek's Wi-Fi products offer the latest generation of wireless nurse call that work with standard 802.11b/g Wi-Fi networks. No requirement for extensive cabling infrastructure, simply install in desired locations and leverage on your existing Wi-Fi infrastructure with minimal impact on the network.

Call points are designed for health care environments that demand secure and reliable communication protocols with guaranteed message delivery. Requires QSWCA-N01 Wi-Fi CareView Adapter 1.0 and CVNC Questek CareView 1.5 or above software.

Features

- Available in a variety of two and three buttons – Call, Assist, Emergency, Presence, Duress, Call & Assist, and Cancel
- Built-in audible and visual (green/red LED) reassurance indicators
- Ultra-low power battery operation
- Easy battery replacement
- Fully monitored bi-directional communications over TCP/IP, HTTP+JSON
- Static and dynamic IP addressing
- Supports 64/128-bit WEP, WPA2-PSK authentication with AES encryption
- Over the air (OTA) firmware and configuration upgrades
- Easy to clean & maintain
- Easy installation & relocation
- Water resistant (IP67 rated)
- Braille for "CALL" buttons
- High polish polycarbonate plastic with antimicrobial additive
- Adheres to Australian Standard AS3811-1998 where applicable



QCA02X-WG/QCA03X-WG

Wi-Fi 802.11b/g Two/Three Button Call Point Series

Operation

- When Button 1 or Button 2 is pressed the button is latched on and a message is sent to the server
- When the Cancel "C" button is pressed, Button 1 and/or Button 2 is cleared and a message is sent to the server
- Call point provides audible and visual (green/red LED) reassurance on success/failure conditions
- Call point will retransmit messages at predefined intervals until acknowledged at the server
- Call point sends health and status messages at periodic intervals (e.g. every 15 minutes)

Configuration

Call point is software configured with network settings and modes of operation. Refer to Installation Guide for more information.

Pairing Procedure

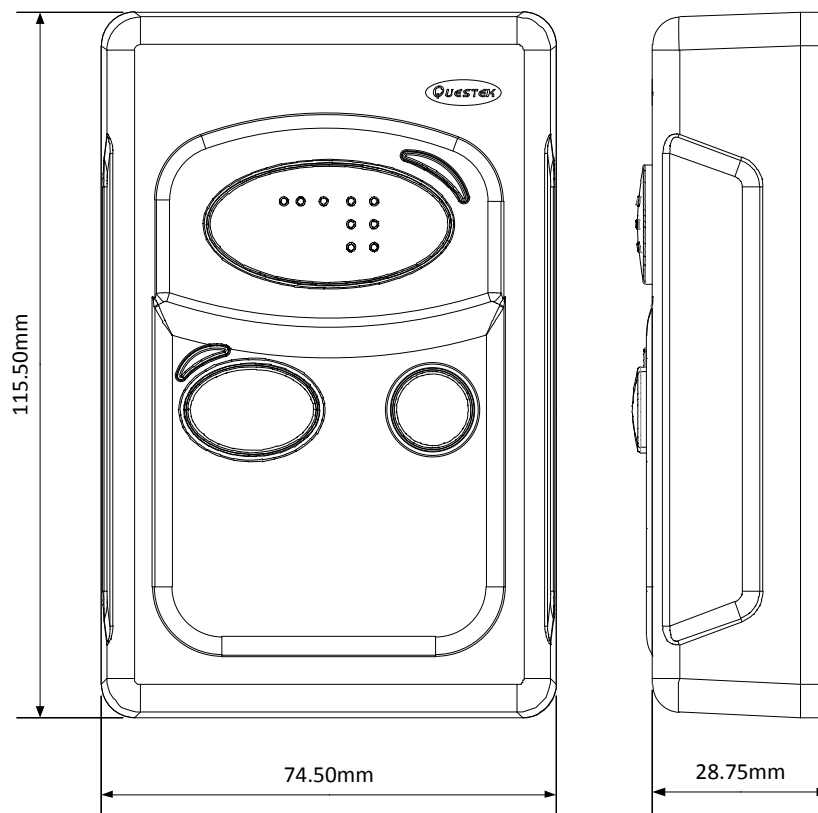
Call points must be paired with a server prior to normal operation.

To send a Hello request during a pairing procedure:

1. Press and hold the Cancel "C" button
2. Press Button 1
3. Release the Cancel button

Call point produces an audible chirp if pairing procedure was successful.

Dimensions

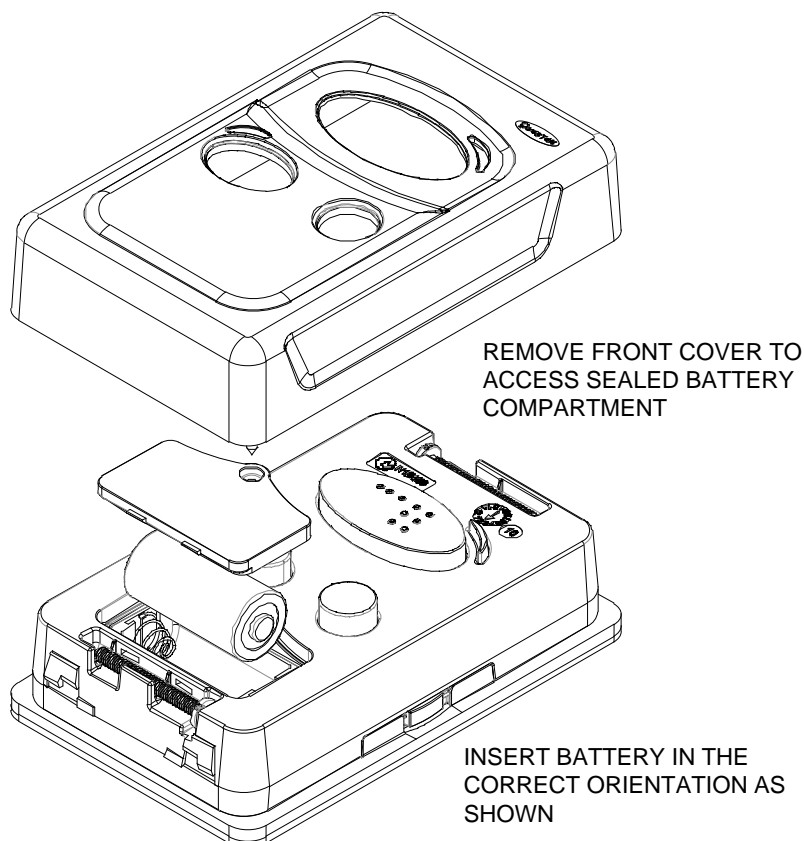


QCA02X-WG/QCA03X-WG

Wi-Fi 802.11b/g Two/Three Button Call
Point Series



Battery replacement



Specifications

Physical Characteristics	Dimensions (w x h x d)	74.5mm x 115.5mm x 28.75mm + 3mm wall mounting plate
	Mounting	Call Point is attached to an Australian standard sized wall plate. Hole spacing 84mm and 100mm
Power	Battery	3 volts Lithium CR123 or CR123A
	Operating Voltage Range	2.5 to 3.2 volts
	Battery Life	3+ years (15 minute Check-In Interval)
	Current (Sleep)	4 to 6 μ A
	Current (Operating)	40 to 50mA
	Current (Communications)	200mA
Environmental	International Protection Rating	IP67 (Dust tight, liquid immersion to 1m)
	Operating Temperature Range	0°C to 40°C Battery life is reduced on both low and high ends of the temperature range



QCA02X-WG/QCA03X-WG

Wi-Fi 802.11b/g Two/Three Button Call Point Series

Communications	Interface	2.4Ghz IEEE 802.11b/g Wi-Fi Certified WPA2 Enterprise, WMM QoS and WMM Power Save		
	Security	WEP-40, WEP-104, WPA-PSK, WPA2-PSK		
	Protocols	TCP/IP TFTP HTTP 1.1/JSON DHCP or Static IP Layer 3 Addressing		
	Wi-Fi Output Power	14dBm		
	Wi-Fi Receiver Sensitivity	-72dBm 54Mbps/s 10% PER -86dBm 11Mbps/s 10% PER		
	802.11b/g Channels	1, 6, 11		
Functions	Battery Measurement	Key: Batt Values: 2000-3700 Units: mV		
	Temperature Measurement	Key: Temp Values: 0-40 (on chip temperature) Unit/Precision: Degrees Celsius +/- 1%?		
	Button 1	Key: Button1 Values: 0 = Reset, 1 = Latched		
	Button 2	Key: Button2 Values: 0 = Reset, 1 = Latched		
Performance	Battery Life	Check-In Interval (mins)	Est. Battery Life (years)	
		3	1+	
		7	2+	
		15 (recommended)	3+	
	Communication	Security	Bytes Tx/Rx	Roundtrip (ms)
		None	TBA	TBA
		WEP	TBA	TBA
		WPA2	TBA	TBA
Audible and Visual Reassurance	Operation	Sounder	LED Indicator	
	Button1/Button2 is pressed	Chirps once and then chirps once every 10 seconds (success) OR Off (failure)	Illuminates green for 1 second and then flashes green once every 2 seconds (success) OR flashes red once every 2 seconds (failure)	
	Cancel button is pressed	Off	Off (success) OR flashes red once every 2 seconds (failure)	
	Hello request	Chirps once (success)	Off	

QCA02X-WG/QCA03X-WG

Wi-Fi 802.11b/g Two/Three Button Call Point Series



Ordering Information



QCA021-WG
802.11b/g Wi-Fi Call Point



QCA022-WG
802.11b/g Wi-Fi Emergency Point



QCA023-WG
802.11b/g Wi-Fi Presence Point



QCA024-WG
802.11b/g Wi-Fi Assist Point



QCA026-WG
802.11b/g Wi-Fi Duress Point



QCA032-WG
802.11b/g Wi-Fi Call and Assist Point

Accessories



CR123A
Replacement 3V 1400mAh
Lithium Battery



QCA-MP
Australian standard sized
vertical mounting plate with
adhesive contact



QCA-BP
Australian standard sized
vertical blank plate



QCA02X-WG/QCA03X-WG

*Wi-Fi 802.11b/g Two/Three Button Call
Point Series*

Installation

