Mobile Access Portal Gateway

Submittal Data

S1-YK-MAP1810-0P

The Mobile Access Portal (MAP) Gateway is a pocket-sized web server that provides a wireless mobile user interface to Smart Equipment. Small, lightweight, and easy to use, the MAP Gateway joins the rapidly expanding list of Johnson Controls® products that leverage the power of mobility and smart devices to improve daily operations.

Offering many-to-one, multi-client connectivity, the MAP Gateway gives users access to any Smart Equipment device that is on a connected BACnet MS/TP field bus. The MAP Gateway solution is conveniently sized, has a built-in wireless access point, and allows personnel to use an intuitive, browser-based interface to access advanced features like alarms and point configuration.

The wireless connection on the MAP Gateway allows users to be up to 31 m (100 ft, line of sight) away indoors and up to 91 m (300 ft, line of sight) away outdoors while using a supported mobile device. Power may be supplied via the Sensor/Actuator (SA) bus or Field Controller (FC) bus.

The MAP Gateway may be used as a portable device that can be moved from site to site, depending on the needs and work flow of field personnel. During use, the MAP Gateway is plugged into the SA bus or FC bus of a controller.

Refer to the Mobile Access Portal Gateway Technical Guide (1154578-UTG-A-0515) for additional product application information.

Features

- Multi-client Connectivity
- Easy-to-use Interface
- Wi-Fi Connectivity
- Advanced Features
- Browser-based Remote Building Management
- Micro USB Port Upgrades

If the MAP Gateway fails to operate within its specifications, replace the unit. For a replacement MAP Gateway, contact the nearest Johnson Controls representative.

Figure 1: Mobile Access Portal Gateway

Ordering Information

Contact your Johnson Controls® representative to order the MAP Gateway or any related products. See Table 1 for product code numbers and product descriptions.

Table 1: Ordering Information

Product Code Number	Description
S1-YK-MAP1810-0P	Portable MAP Gateway (Includes MAP Gateway, RJ-12 cable, bumper guard, and lanyard.) US-compatible countries.

Accessories (Order Separately)

Table 2:   Accessories

Product Code Number	Description
S1-MP-PRTKIT-0P	Portable Kit (Includes RJ-12 cable, shell, and lanyard.)

Related Documentation

Table 3:   Related Documentation

For Information On	See Document
MAP Gateway Quick Start Information	Mobile Access Gateway Portal Quick Start Guide
MAP Gateway Installation and Wiring	Mobile Access Gateway Portal Installation Instructions
MAP Gateway Features, Benefits, and FAQs	Mobile Access Portal Gateway Technical Guide 1154578-UTG-A-0515
MAP Gateway Ordering Information	Mobile Access Portal Gateway Submittal Data 1154577-USD-A-0515

Table 4:   MAP Gateway

Product Code[1]	**S1-MP-PRTKIT-0P:** Portable MAP Gateway (Includes MAP Gateway, RJ-12 cable, bumper guard, and lanyard.) US-compatible countries.
Power Consumption	From SA/FC bus: 15 VDC at 2.7 VA maximum
Ambient Temperature Conditions	**Operating:** 0 to 50°C (32 to 122°F) **Operating Survival:** -30 to 60°C (-22 to 140°F) **Non-Operating:** -40 to 70°C (-40 to 158°F)
Ambient Humidity Conditions	**Storage:** -40 to 70°C (-40 to 158°F); 5 to 95% RH 30°C (86°F) maximum dew point conditions **Operating:** -40 to 70°C (-40 to 158°F); 5 to 95% RH, 30°C (86°F) maximum dew point conditions
Transmission Power (Typical)	Wireless Local Area Network (WLAN) Transmission Power: +14.5 dBm, 54 Mbps +12.5 dBm, 65 Mbps
WLAN Receiver Sensitivity (Typical)	-76 dBm, 10% packet error rate (PER), 54 Mbps -73 dBm, 10% PER, 65 Mbps
Transmission Speeds	Wireless Communication: 2.4 GHz ISM bands, 802.11 b/g/n, 11/22/54 Mbps Serial Communication (SA/FC Bus): 9600, 19.2k, 38.4k, or 115.2k bps
Transmission Range (Typical)	Wireless Communication: 30 m (100 ft) line-of-sight indoors 91 m (300 ft) line-of-sight outdoors WLAN Range Performance: 0 - 50 ft = Excellent 50 - 100 ft = Good 100 - 300 ft = Weakest, approaching out of range
Wireless Security	WPA2-PSK TKIP (Wi-Fi Protected Access Pre-Shared Key mode Temporal Key Integrity Protocol)

Table 4: MAP Gateway (Continued)

Network and Serial Interfaces	One SA/FC port (6-pin port; connects with 1.5 m [4.9 ft] RJ-12 field bus cable) One USB port (Micro-B port; 2.0; supports Open Host Controller Interface [Open HCI] specification)
Dimensions (H x W x D)	Unit alone: 120 x 70 x 24.5 mm (4-23/32 x 2-3/4 x 31/32 in. when used vertically) Unit in shell: 128 x 75 x 29.5 mm (5-1/32 x 2-61/64 x 1-5/32 in. when used vertically)
Housing	White Acrylonitrile butadiene styrene (ABS) bracket Black silicone shell
Weight	Unit alone: 0.10 kg (0.22 lb) Unit in shell: 0.15 kg (0.33 lb) **Note:** Weights do not include any peripheral components such as cables, lanyard, or an external power supply.
Web Browser Requirements for Computers and Handheld Devices	Computer: Windows® Internet Explorer® 10, Apple® Safari® 6.1 and later **Handheld Device**: The handheld device must be running Internet Explorer Mobile for Windows Mobile version 5 or version 6 operating system (OS); or Apple® iPhone® and iPod touch® iOS version 6.1 or greater. Other web browsers may display the UI but the functionality is not guaranteed.
Compliance **C E**	**United States** UL Listed File E365459, ANSI/UL 60950-1, Information Technology Equipment; UL 2043 (Stationary version only), Suitable for Use in Other Environmental Air Space in Accordance with Section 300.22, (C) of the National Electric Code. Transmission Complies with FCC Part 15.247 Regulations for Low Power Unlicensed Transmitters Transmitter FCC Identification: OEJ-MAPWIFI FCC Compliant to CFR 47, Part 15, Subpart B, Class A
	Canada: Industry Canada IC: 279A-MAPWIFI ULC Listed File E365459, CAN/CSA-C22.2 No. 60950-1, Safety of Information Technology Equipment
	Europe: CE Mark – Johnson Controls, Inc. declares that this product is in compliance with the essential requirements and other relevant provisions of the R&TTE Directive 1999/05/EC and EMC Directive 2004/108/EC. IC: RSS-210 **CE Emission:** EN61000-6-3: 2007; Generic standards for residential, commercial, and light-industrial environments. ETSI EN 301 489-1:2001-09, ETSI EN301 489-3:2001-11 (Class 2), IEC 60950-1/ EN 60950-1

1. Last digit (x) represents non-US country requirements.

The performance specifications are nominal and conform to acceptable industry standard. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

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