Mobile Access Portal Gateway Catalog Page

TL-MAP1810-0Px TL-MAP1810-0Sx

Code No. LIT-1900869
Software Release 3.0
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Refer to the QuickLIT website for the most up-to-date version of this document.

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® Master-Slave/Token-Passing (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 through the Sensor/Actuator (SA) bus, Field Controller (FC) bus, or through the included AC power supply.

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

A stationary version of the MAP Gateway is available that can be permanently mounted and plugged into the SA bus or FC bus of a field controller.

The MAP Gateway user interface is accessed either over Wi-Fi or an existing Ethernet network on site. The stationary version is permanently mounted in a mounting bracket that may be clipped on to a DIN rail or attached with screws to a stable, flat surface.

Refer to the *Mobile Access Portal Gateway Product Bulletin (LIT-12011884)* for additional product application information.

Features

- Multi-client Connectivity
- Easy-to-use Interface
- Ethernet and Wi-Fi Connectivity
- Advanced Features
- Browser-based Remote Building Management
- Portable Size and Mobility

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
TL-MAP1810-0Px[1]	Portable MAP Gateway - includes MAP Gateway, RJ-12 cable, protective shell, and lanyard.
TL-MAP1810-0Sx[1]	Stationary MAP Gateway - includes MAP Gateway, field bus adapter, mounting bracket, and AC power supply. (Adapters for the power supply may vary by country.)

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

Accessories (Order Separately)

Table 3: Accessories

Product Code Number	Description
MP-PRTKIT-0P	Portable Kit - Includes RJ-12 cable, shell, and lanyard
MP-STAKIT-0	Stationary Mounting Cradle only - includes mounting bracket and field bus adapter
MP-STAKIT-0H	Stationary Cradle Kit - includes mounting bracket, field bus adapter, and AC power supply.
MP-STAFBA-0	Field Bus Adapter - RJ-12 to 4-position Terminal Block Adapter. Used for connecting directly to MS/TP Field Bus

Related Documentation

Table 3: Related Documentation

For Information On	See Document
MAP Gateway Quick Start Information	*Mobile Access Gateway Portal Quick Start Guide (Part No. 24-10737-16)*
MAP Gateway Installation and Wiring	*Mobile Access Gateway Portal Installation Instructions (Part No. 24-10737-8)*
MAP Gateway Features, Benefits, and FAQs	*Mobile Access Portal Gateway Product Bulletin (LIT-12011884)*
MAP Gateway Ordering Information	*Mobile Access Portal Gateway Catalog Page (LIT-1900869)*
MAP Gateway IT Guidance	*Mobile Access Portal Gateway Network and IT Guidance Technical Bulletin (LIT-12012015)*

Technical Specifications

Table 4: MAP Gateway

Product Code[1]	**TL-MAP1810-0Px:** Portable MAP Gateway - includes MAP Gateway, RJ-12 cable, bumper guard, and lanyard. **TL-MAP1810-0Sx:** Stationary MAP Gateway - includes MAP Gateway, field bus adapter, mounting bracket, and AC power supply. (Adapters for the power supply may vary by country.)
Power Consumption	From SA/FC bus: 15 VDC at 2.7 VA maximum From 100-240 VAC external power supply: 15 VDC at 3.8 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:** 0-50°C (32 to 122°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 **Ethernet Communication:** 10, 100 Mbps

Table 4: MAP Gateway

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)
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 Ethernet port (8-pin port; connects with 30.48 m [100 ft], 8-pin RJ-45 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) Unit in mounting bracket: 137 x 84.5 x 32 mm (5-25/64 x 3-21/64 x 1-17/64 in. when used vertically, includes DIN clips)
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) Unit in mounting bracket: 0.17 kg (0.38 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 and Windows Internet Explorer 11, Apple® Safari® 6.1 and later, or Google® Chrome™ **Handheld Device**: The handheld device must be running either Internet Explorer Mobile for Windows Mobile version 5 or version 6 operating system (OS); Apple® iPhone® and iPod touch® iOS version 7.0 or greater; or Android™ 4.0.3, 4.0.4, and 4.1+. Google Chrome. Other web browsers may display the UI, but the functionality is not guaranteed.
Compliance	**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
CE	**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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