Passerelle mobile sans fil
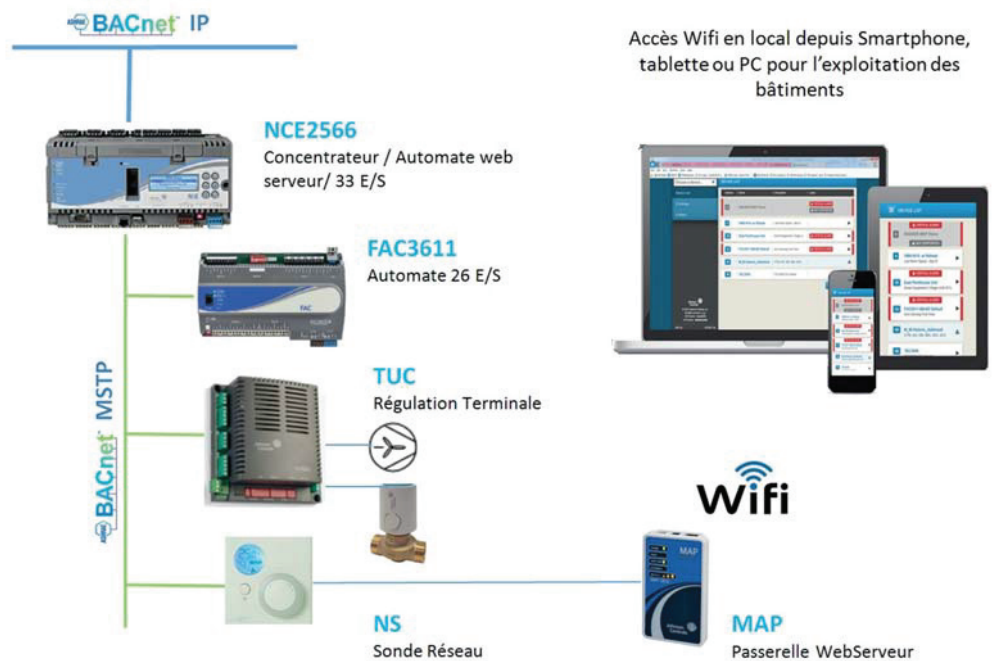
Série MAP

Description

La passerelle mobile MAP (Mobile Access Portal) est un serveur Web de la taille d'un smartphone agissant comme une interface sans fil avec les régulateurs Johnson Controls des séries PEAK, FEC, FAC et VMA. Elle se raccorde à leur bus SA ou FC grâce à son câble RJ-12 et procède alors à une auto-découverte de tous les appareils connectés au réseau local BACnet MS/TP. Son navigateur permet d'accéder tour à tour aux données opérationnelles de chacun et communique en WiFi avec n'importe quel appareil compatible : smartphone, tablette, ordinateur portable, ...

Caractéristiques

- Réseau WiFi sécurisé WPA2
- Navigation intuitive
- Accès aux points de consigne, alarmes, programmes horaires, tendances, ...
- Affichage auto-adaptatif en fonction du support
- Portée efficace 30 m
- Alimentation 15 Vcc fournie par le bus FC/SA
- Boîtier IP 20
- Fonctionnement de 0 à +50°C
- Conformes aux Directives Européennes CEM 2014/30/UE et BT 2014/35/UE

NCE2566
Concentrateur / Automate web serveur/ 33 E/S

FAC3611
Automate 26 E/S

TUC
Régulation Terminale

NS
Sonde Réseau

MAP
Passerelle WebServeur

Accès Wifi en local depuis Smartphone, tablette ou PC pour l'exploitation des bâtiments

Description	Référence
Passerelle mobile WiFi, avec câble RJ-12, coque de protection et lanière de transport	**TL-MAP1810-0PE**
Berceau pour montage fixe sur rail DIN, avec adaptateur bus local	**MP-STAKIT-0**
Adaptateur pour raccordement direct sur bus local MS/TP	**MP-STAFBA-0**
Transformateur 230 Vca / 15 V pour montage fixe et raccordement sur réseau Ethernet	**TL-PWRKIT-0D**

Passerelles

MAP
Mobile Access Portal Gateway

Product Bulletin

The Mobile Access Portal (MAP) Gateway is a pocket-sized web server that provides a wireless mobile user interface to Smart Equipment and Johnson Controls branded system controllers and thermostats. 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.

The MAP Gateway can be used to see field bus devices on Metasys® systems and Smart Equipment units with PEAK®. The MAP Gateway supports Johnson Controls branded Field Controllers, including PEAK, FEC, FAC and VMA.

Offering many-to-one, multi-client connectivity, the MAP Gateway gives you access to any supported device that is on a connected BACnet® Master-Slave/Token-Passing (MS/TP) field bus. The MAP Gateway solution is conveniently sized and has a built-in wireless access point. The MAP Gateway provides an intuitive, browser-based user interface to access advanced features like alarms and point configuration.

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

Features

- **Multi-client Connectivity**
  Provides access to all identifiable supported Johnson Controls devices connected to the BACnet® MS/TP trunk.

- **Browser-based Interface**
  Offers a local display replacement solution that allows you to access device information through any supported web browser.

- **Wi-Fi Connectivity**
  Lets you commission, configure, and access building automation equipment using Wi-Fi-enabled smart devices or laptops.

- **Advanced Features**
  Allow you to view alarms, events, and trends; modify schedules; and commission devices.

- **Browser-based Remote Building Management**
  Allows remote management of building systems

- **Permanent Audit Log**
  Allows you to export and view a log file to review all user logins and transactions, along with logging any events generated from the controllers.

- **Portable Size and Mobility**
  Allows for options to permanently mount or carry the unit from site to site.

- **Configurable Home Pages for Devices**
  Allows you to customize your work processes using the Display Object in the Controller Tool.

- **Easy-to-use Intuitive User Interface**
  Uses color coded bars on point listings to enable you to quickly get the most important statuses from a long list of points.

MAP Gateway User Interface

The MAP Gateway provides a wireless, intuitive user interface optimized for mobile use.

The MAP Gateway user interface scales to the device you are using. On a computer screen or tablet, the main menus and screens are side by side. On a phone display, you see either the menu *(Figure 1)* or the screens you selected from that menu, for example, an FAC Home Screen *(Figure 2)*. When you view the UI on a phone or smaller tablet, you can drag the screen from the left or right to display the menu or screens as desired.
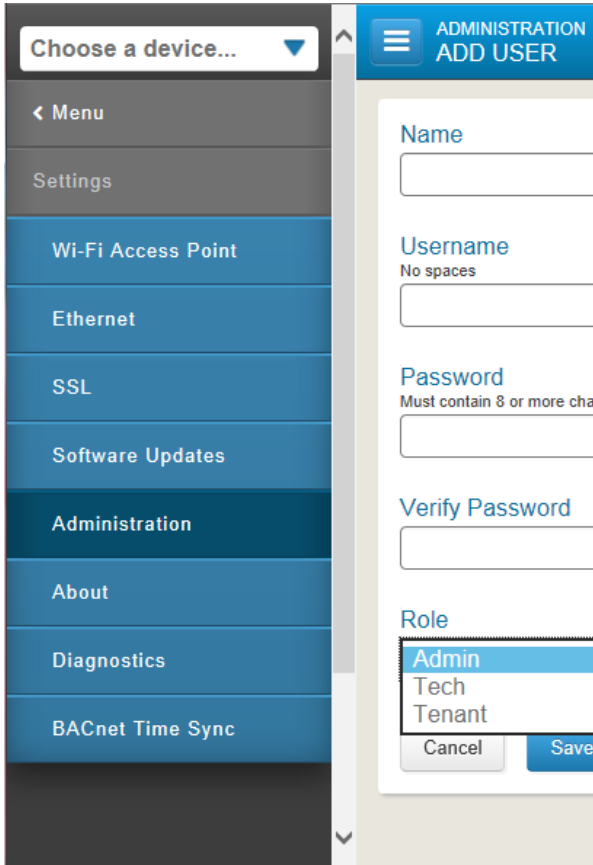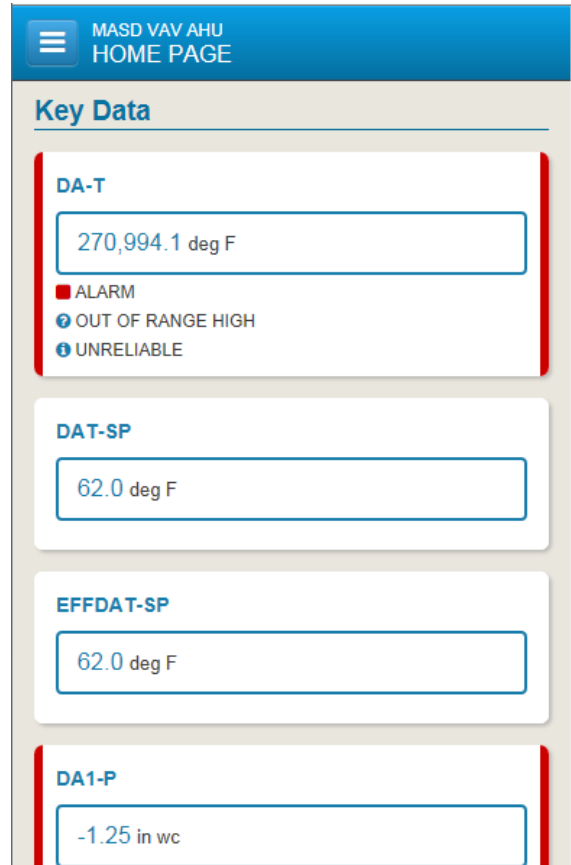

Figure 1: Main Menu

Figure 2: FAC Home Screen

Installation

You can install and use the MAP Gateway as a portable device or as a stationary device. As a portable device, the MAP Gateway requires minimal installation and wiring. You can house the unit in the supplied silicone shell or hang the unit on nearby equipment using the lanyard.

To use the MAP Gateway, you connect the unit to a Sensor Actuator (SA) port or Field Controller (FC) port using a field bus adapter. Power is supplied through the Sensor/Actuator (SA) bus, Field Controller (FC) bus, or through the included AC power supply.

To install the MAP Gateway as a stationary device, you mount the unit on a DIN rail or on a flat wall surface. The MAP Gateway mounting bracket is designed so that the unit may be mounted flush or on the side. 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.

The Ethernet port on the MAP Gateway requires an external power supply. You must connect the power supply before the MAP Gateway begins the boot sequence. If the MAP Gateway is powered through the SA or FC Bus before you connect the external power supply, the Ethernet port is not enabled. In this case, you must start over and connect the external power supply to the MAP Gateway **before** beginning the boot sequence.

Note: When you use the MAP Gateway as a stationary device on Ethernet, you must plug it into external power **before** you attach the field bus adapter.

Repair Information

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

Ordering Information

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

Ordering Codes	Description
TL-MAP1810-0PE	Portable MAP Gateway - includes MAP Gateway, RJ-12 cable, protective shell, and lanyard

Accessories (Order separately)

Ordering Codes	Description
TL-PWRKIT-0D	Universal AC Power Supply Adapter – Used for connecting to Ethernet
MP-STAKIT-0	Stationary Mounting Kit - includes stationary mounting cradle and field bus adapter
MP-STAFBA-0	Field Bus Adapter - RJ-12 to 4-position Terminal Block Adapter. Used for connecting directly to MS/TP Field Bus.

Johnson Controls

Technical Specification

Product Code		
TL-MAP1810-0PE	Portable MAP Gateway - includes MAP Gateway, RJ-12 cable, bumper guard and lanyard.	
Power Consumption	From SA/FC bus: 15 VDC at 2.7 VA maximum	
Ambient Temperature Conditions		
Operating	0 to 50°C	
Operating Survival	-30 to 60°C	
Non-Operating	-40 to 70°C	
Ambient Humidity Conditions		
Storage	-40 to 70°C; 5 to 95% RH 30°C maximum dew point conditions	
Operating	0-50°C; 5 to 95% RH, 30°C 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	
Transmission Range (Typical)		
Wireless Communication	30 m line-of-sight indoors 91 m line-of-sight outdoors	
WLAN Range Performance	0 – 15 m = Excellent 15 – 30 m = Good 30 – 90 m = 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 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 (when used vertically)	
Unit in shell	128 x 75 x 29.5 mm (when used vertically)	
Housing	White Acrylonitrile butadiene styrene (ABS) bracket Black silicone shell	
Weight		
Unit alone	0.10 kg	
Unit in shell	0.15 kg	
	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+, or Google Chrome. Other web browsers may display the UI, but the functionality is not guaranteed.	
Compliance		
Europe	Johnson Controls International plc, declares that these products are in compliance with the essential requirements and other relevant provisions of the European Directive.	

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