HONEYWELL FORGE GATEWAY

HFB-FC-FGW Gateways are advanced devices that integrate and aggregate data from various field devices ensuring robust monitoring and control via the Remote Building Manager Dashboard. It has provisions to integrate with field devices using physical interfaces like RS485 bus. It also provides a secured physical connection to the Forge cloud platform.

Honeywell Forge Gateway

FEATURES AND HIGHLIGHTS

SIMPLE AND FLEXIBLE ENGINEERING

- Integrated with the Remote Building Manager Dashboard (built on Honeywell Forge cloud platform).
- Two Ethernet ports with status LEDs.
- Real-Time Clock with 72 hours retention using a gold capacitor.
- Modbus RTU for integration.

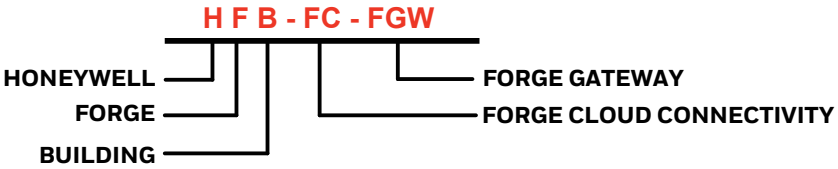
EFFICIENCY AND SAFETY ON SITE

- Supports DIN rail mounting and wall/panel mounting (four screws).
- Main LED to show the operational status of the Gateway.
- Reset button to restore to factory default settings.
- Optional terminal covers for protection.

COMPATIBILITY AND SUPPORT

- BACnet™, HTTPS, and DHCP.
- Modbus protocol in RS485-1, RS485-2 & RS485-3 interfaces.
- Supports remote, over-the-air (OTA) firmware upgrades.

PART NUMBERS DESCRIPTION



ORDERING INFORMATION

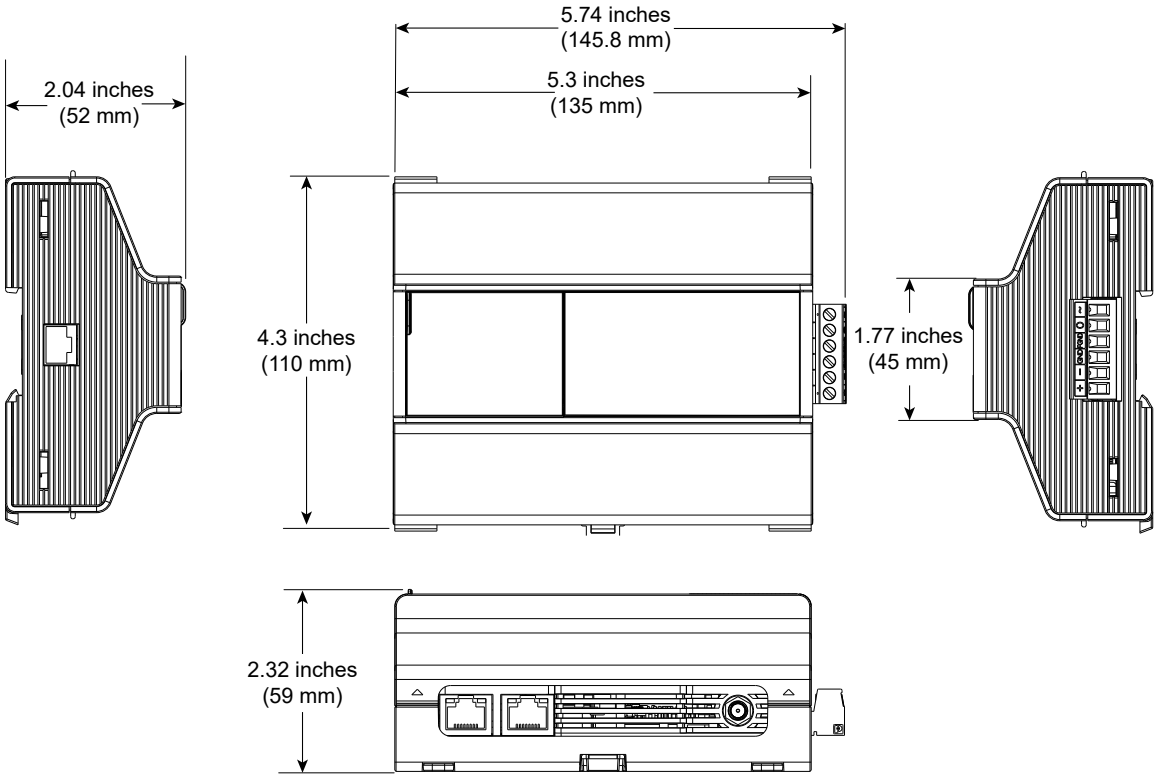
FORGE GATEWAY PART NUMBER	
PART NUMBER	**SPECIFICATION**
HFB-FC-FGW	Forge Gateway for Honeywell Forge Cloud Connectivity

ACCESSORIES/REPLACEMENT PARTS	
PARAMETER	**SPECIFICATION**
GW-TCVR	Replacement Terminal Covers (Small) (Pack Quantity of 4)
GW-EXT-TCVR	Extended Terminal Covers (Large) (Pack Quantity of 4)

Honeywell

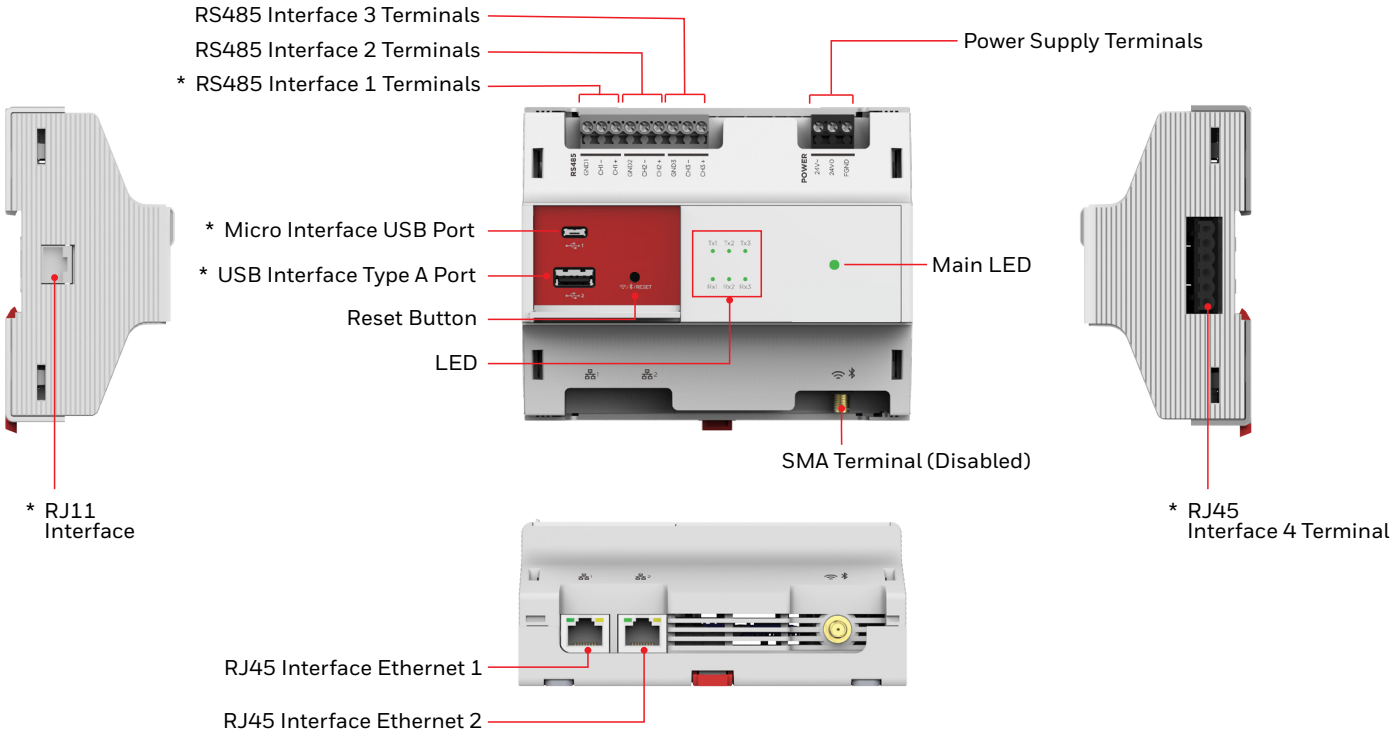
DIMENSIONS

FORGE GATEWAY



DIMENSIONS	
PARAMETER	**SPECIFICATION**
Controller Dimensions (L x W x H)	5.74 x 4.3 x 2.04 inches (145.8 x 110 x 52 mm)
Mounting	DIN rail or wall mounted

HARDWARE OVERVIEW



* RS485-1 interface and its Rx and Tx LEDs, USB interfaces, RJ11 interface are for future use.

PRODUCT SPECIFICATION

POWER CHARACTERISTICS	
PARAMETER	**SPECIFICATION**
Operating Voltage (AC)	19 to 29 VAC (50/60Hz)
Operating Voltage (DC)	19 to 29 VDC
Overvoltage Protection	Protected against overvoltages of max. 29 VAC or 40 VDC. Terminals are protected against short-circuiting.

POWER CONSUMPTION		
GATEWAY	**POWER CONSUMPTION**	
	24 VAC	**24 VDC**
HFB-FC-FGW	Max. 35 VA	Max. 15 W

CURRENT CONSUMPTION		
GATEWAY	**CURRENT CONSUMPTION**	
	24 VAC	**24 VDC**
HFB-FC-FGW	1430 mA	620 mA

OPERATING ENVIRONMENT	
PARAMETER	**SPECIFICATION**
Ambient Operating Temperature	32 to 122 °F (0 to 50 °C)
Ambient Operating Humidity	5 to 95% relative humidity (non-condensing)
Storage Temperature	-22 to 158 °F (-30 to +70 °C)
Ambient Storage Humidity	5 to 95% relative humidity (non-condensing)
Vibration Under Operation	0.024" double amplitude (2 to 30 Hz), 0.6 g (30 to 300 Hz)
Dust, Vibration	According to EN60730-1
RFI, EMI	Residential, commercial, and light industrial environments
MTBF (Mean Time Between Failure)	11.5 years

STANDARDS AND CERTIFICATION	
PARAMETER	**SPECIFICATION**
Protection Class	IP20
Product Standards	UL60730-1, UL60730-2-9, UL916, EN60730-1, EN60730-2-9, CAN/CSA-E60730-1
Testing Electrical Components	IEC68
Certification	• UL60730-1 • UL916 • CE • FCC Part15, Subpart B • CAN ICES-3 (B)/NMB-3(B) • RCM • RoHS III
System Transformer	The system transformer(s) must be safety isolating transformers according to IEC 61558-2-6. In the U.S.A. and Canada, NEC Class 2 transformers must be used.

GATEWAY PARAMETERS	
PARAMETER	**SPECIFICATION**
Max number of points	3000
Max trend retention	2 days (1 min samples)
Max number of alarms retained	70000 Records
History Push	Per Minute
GW OTA Upgrade Check	Once in 4 hours

COMMUNICATION BAUD RATES	
PARAMETER	**SPECIFICATION**
Ethernet	10/100/1000 Mb/s, RJ45
Modbus RTU	0.3 to 115.2 Kbps

GENERAL SAFETY INFORMATION

- When performing any work (installation, mounting, start-up), all manufacturer instructions and in particular the Installation and Commissioning Instructions (EN1B-0077IE10) are to be observed.
- HFB-FC-FGW Gateway must be installed and mounted only by authorized and trained personnel.
- Rules regarding electrostatic discharge should be followed.
- If the HFB-FC-FGW Gateway is modified in any way, except by the manufacturer, all warranties concerning operation and safety are invalidated.
- Make sure that the local standards and regulations are observed at all times. Examples of such regulations are VDE 0800 and VDE 0100 or EN 60204-1 for earth grounding.
- Use only accessory equipment that comes from or has been approved by Honeywell.
- It is recommended that devices be kept at room temperature for at least 24 hours before applying power. This is to allow any condensation resulting from low shipping/storage temperatures to evaporate.
- The HFB-FC-FGW Gateway must be installed in a manner (e.g., in a lockable cabinet) ensuring that unauthorized persons have no access to the terminals.
- Investigated according to United States Standard UL-60730-1,UL-916, and UL60730-2-9.
- Investigated according to Canadian National Standard(s) C22.2, No. 205-M1983 (CNL-listed).
- Do not open the HFB-FC-FGW, as it contains no user-serviceable parts inside!
- CE declarations according to LVD Directive 2014/35/EU and EMC Directive 2014/30/EU.
- Product standards are EN 60730-1 and EN 60730-2-9.

SAFETY INFORMATION AS PER EN60730-1

- The HFB-FC-FGW Gateway is intended for residential, commercial, and light-industrial environments.
- The HFB-FC-FGW Gateway is an independently mounted electronic control system with fixed wiring.
- The HFB-FC-FGW is suitable for mounting in fuse boxes conforming with standard DIN43880, and having a slot height of max. 45 mm.
- It is suitable for panel rail mounting on 35 mm standard panel rail (both horizontal and vertical rail mounting possible).
- The HFB-FC-FGW is used for the purpose of building HVAC control and is suitable for use only in non-safety controls for installation on or in appliances.

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