

Wireless communication for the EA_Gatekeeper

WIC installation instructions

General

⚠ WARNING

All EA_Gatekeepers are tested before shipment. For proper installation, accuracy, and maximum life of the gatekeepers, use the following instructions.

Use authorized utility procedures to install and service gatekeepers. Dangerous voltages are present. Equipment damage, personal injury, or death can result if safety precautions are not followed.

This leaflet provides general information for the Wireless WIC communication option for the EA_Gatekeeper devices. For information on installing the EA_Gatekeeper itself, see the instructional leaflet for your specific model.

Gatekeepers may be ordered with a wireless cellular communication option: the Wireless WAN Interface Card (W-WIC). The W-WIC provides a high speed cellular communication channel for the gatekeeper. The gatekeeper also uses a local communication module (EA_NIC) to communicate to the EnergyAxis 900 MHz mesh network (EA_LAN).

Placing the EA_Gatekeeper with W-WIC into service

⚠ WARNING

Use authorized utility procedures when placing the EA_Gatekeeper into service. Dangerous voltages are present. Equipment damage, personal injury, or death can result if authorized utility procedures are not followed.

Since the W-WIC and EA_LAN are high frequency communication devices, site the gatekeeper so that the front of the enclosure has the best possible view of the surrounding terrain.

Do not place metal structures (other than any equipment shipped with the gatekeeper or its related cabling) within 20 centimeters of the gatekeeper.

To verify operation of the W-WIC on site, the following steps may be taken:

1. After installing and powering the gatekeeper, wait approximately 5 minutes for the W-WIC to connect to the cellular network and initialize.
2. Using Metercat software and an optical probe connection, perform a diagnostic read. For information on using Metercat software and performing diagnostic reads, see the Metercat software documentation or online help.
3. Once the diagnostic read is performed, select the Special Option Board section. Several operational parameters are provided, including the following:

Item	Expected status
WAN Wireless status	
Status	"Connected" means the W-WIC is registered to the cellular network.
Received Signal Strength Indication (RSSI)	The RSSI may vary between 0 and 31, with 31 indicating the best possible signal strength. An RSSI value of 99 indicates an unknown or non-detectable signal.
WAN IP address	The IP address provided by the cellular network.

DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY

There are no understandings, agreements, representations, or warranties either express or implied, including warranties of merchantability or fitness for a particular purpose, other than those specifically set out by any existing contract between the parties. Any such contract states the entire obligation of the seller. The contents of this document shall not become part of or modify any prior existing agreement, commitment, or relationship. The information, recommendations, descriptions, and safety notices in this document are based on Elster experience and judgment with respect to operation and maintenance of the described product. This information should not be considered as all-inclusive or covering all contingencies. If further information is required, Elster should be consulted.

No warranties, either expressed or implied, including warranties of fitness for a particular purpose or merchantability, or warranties arising from the course of dealing or usage of trade, are made regarding the information, recommendations, descriptions, warnings, and cautions contained herein.

In no event will Elster be responsible to the user in contract, in tort (including negligence), strict liability or otherwise for any special, indirect, incidental, or consequential damage or loss whatsoever, including but not limited to: damage or loss of use of equipment, cost of capital, loss of profits or revenues, or claims against the user by its customers resulting from the use of the information, recommendations, descriptions, and safety notices contained herein.

