

AGI-packaged EA_Repeater

The EA_Repeater is a flexible and cost effective radio relay solution for deployments of EnergyAxis® System networks including gas or water only service areas.

The EA_Repeater, a component of Elster's Advanced Grid Infrastructure (AGI) Initiative, allows the EnergyAxis System to easily extend into areas where only gas or water is metered. It also enhances network performance with two-way communications in rural or remote areas where EnergyAxis-enabled electricity meters are not sufficiently dense to support reliable mesh network communications. Additionally, the EA_Repeater supports EnergyAxis Smart Grid solutions by providing a relay point for AGInode™ devices for grid sensing and control elements.

The EA_Repeater uses the EnergyAxis 900 MHz LAN (EA_LAN) to relay 2-way smart meter data and commands from EnergyAxis-enabled electricity, gas, and water meters as well as sensor data from AGInode devices up to the repeater's EA_Gatekeeper providing a practical means to extend the reach of the EnergyAxis network elements.

Robust network operations

By filling in any coverage gaps, reinforcing network coverage and by extending the EnergyAxis mesh network to non-electric service areas, the EA_Repeater is a cost effective, flexible element in the EnergyAxis System. The EA_Repeater

provides for electricity utility outage and restoration notification.¹ Using the 900 MHz EA_LAN, the repeater sends a last gasp outage notification upstream to its registered gatekeeper. Once power is restored, the repeater relays a restoration notification to its registered gatekeeper.

Deployment flexibility

The EA_Repeater is designed for simple and practical siting flexibility. It may be mounted on a pole, tower or building exterior. For convenience, optional mounting kits are available.

Repeater power options include AC (120 V or 240 V) or solar² power.

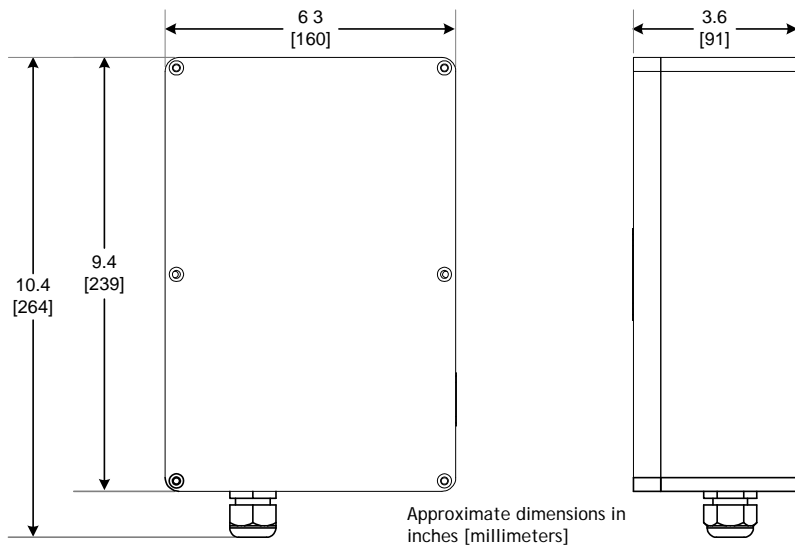
About the AGI Initiative

The AGI Initiative builds on the EnergyAxis System by adding monitoring, control, and communications grid modernization elements with complementary software applications to more effectively leverage your AMI investment as an integrated component of your smart grid distribution solution.

¹ available for AC power option only.

² Contact Elster for availability.

The EA_Repeater offers extended range options for remote or strategic network deployments as well as enabling EnergyAxis System to reliably serve gas or water only service territories.



About Elster

Elster is one of the world's largest electricity, gas and water measurement and control providers. Our offerings include distribution monitoring and control, advanced smart metering, demand response, networking and software solutions, and numerous related communications and services – key components for enabling consumer choice, operational efficiency and conservation. Our products and solutions are widely used by utilities in the traditional and emerging Smart Grid markets.

With a heritage of more than 170 years of providing utility solutions, Elster enjoys a reputation as a leading innovator and has played, and continues to play, an important role in shaping industry standards with respect to performance, reliability, accuracy and functionality.

Temperature range	-40 °C to +65 °C
Enclosure rating	IP66 NEMA4X
Wind resistance	120 mph
Power options	120 VAC 240 VAC Solar only ¹
Communication with	Electricity meters equipped with the EA_NIC AGInode™ grid sensors and controllers equipped with the EA_NIC Gas meters equipped with EA_Gas Modules Water meters equipped with EA_Water Modules

¹ Contact Elster for availability.

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