

EnergyAxis[®] Gas 2.0 module

Installation instructions for C & I gas meters

Introduction

The EA_Gas 2.0 module is intended for use on large diaphragm meters with top mount vertical index (for example, Elster American Meter's AL 800 and larger, Sprague 675 and larger, and Rockwell 750 and larger) and on rotary or turbine meters with instrument drive that would support a vertical index.

Preparation and installation

Note: During installation it is critical that the EA_Gas module be installed in the correct orientation onto the gas meter. Orientation of the module is critical and outlined in this instruction leaflet. Additionally, pre-divider information is also provided for verification during the installation process.

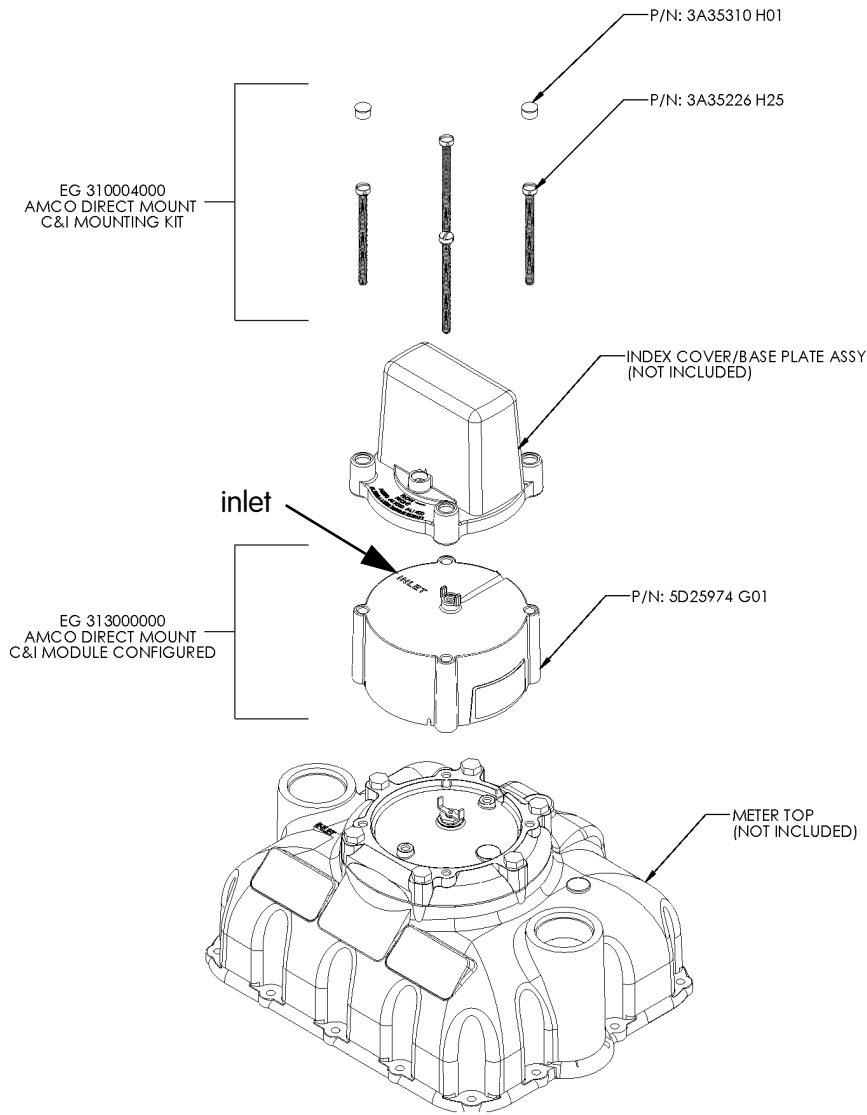
Preparing to install

- Prior to removing the existing index and index cover, verify that the EA_Gas module style is compatible with the meter style.
- Note the inlet location on the meter and also note the stamped "inlet" location on the EA_Gas module intended for the Elster American gas meter and Sprague adapter plate (see Figure 1 and Figure 2). Orientation of the gas module and adapter plate should correspond to the inlet side on the meter during installation.
- Rockwell gas modules have an arrow stamped into the back topside of the plastic housing (see Figure 3). This arrow is pointing to the rear of the meter during installation.

Note: When transporting gas modules to the field for installation, please take care not to jar the housing or have the wiggler come into contact with any surface that may damage the wiggler.

Installing onto Elster American meter

Figure 1. Elster American C & I gas meter with EA_Gas module



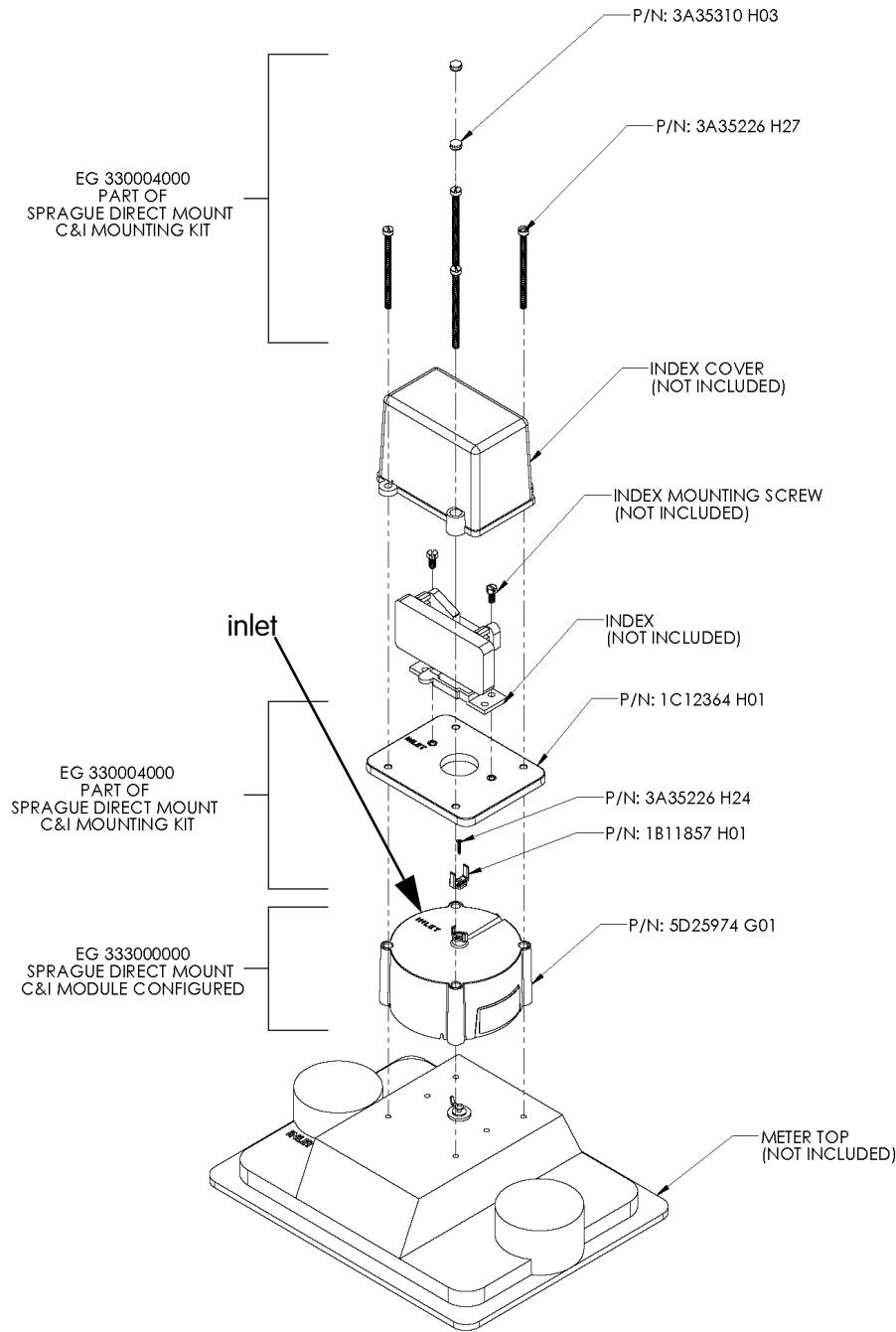
Parts list

- EA_Gas module
- vandal plug
- screws, 18-18NS x 3.5 in. fillister HD, stainless

- Examine the orientation of the gas module and ensure that the "inlet" label or stamp on the gas module will align with the inlet side of the meter (Figure 1).
- To ensure proper installation, make sure the module drives are correctly aligned to engage the meter and index drives.

Installing onto Sprague meter

Figure 2. Sprague C & I Gas meter with EA_Gas module



Parts list

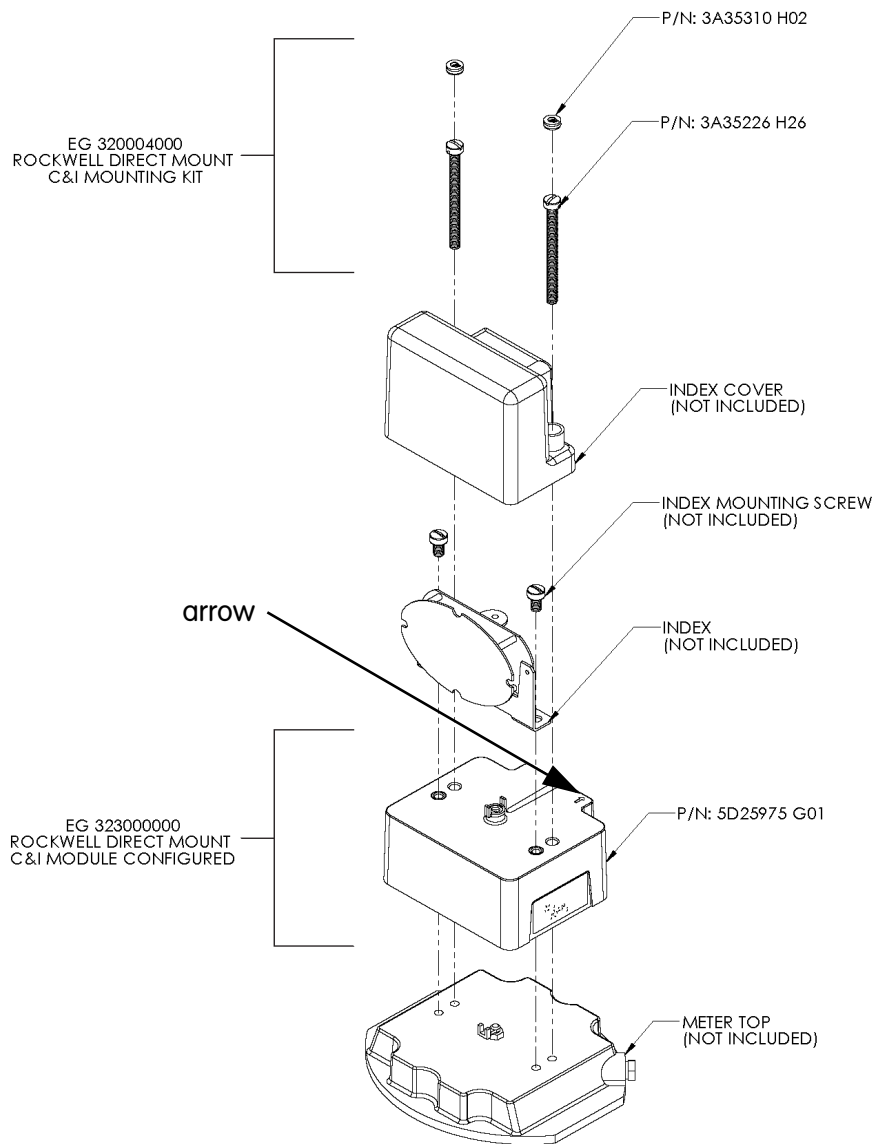
- EA_Gas module
- vandal plug
- adapter plate
- wriggler adapter
- screw, #4 X 5/8 in.
- screws, 1/4-20 x 3.5 in., fillister HD, stainless

- Examine orientation of the gas module and ensure that the "inlet" label or stamp on the gas module will align with the inlet side of the meter (Figure 2).
- To ensure proper installation, make sure the module drives are correctly aligned to engage the meter and index drives.

Note: The Sprague gas meter uses a mounting plate (shown) that goes between the EA_Gas module and the meter's index.

Installing onto Rockwell meter

Figure 3. Rockwell C & I gas meter with EA_Gas module



Parts list

- EA_Gas module
- vandal plug
- screws, 5/16-18 x 3.5 in., fillister HD, stainless

- Examine the orientation of the gas module and ensure that the arrow label or stamp on the top of the gas module is facing to the rear of the meter (Figure 3).
- When attaching the meter index on top of the EA_Gas module, Elster recommends using an anti-seize compound on the mounting screws and/or type 304 stainless steel screws. This will prevent galling and corrosion of the threads over the lifetime of the product.
- To ensure proper installation, make sure the module drives are correctly aligned to engage the meter and index drives.

Installing EA_Gas modules using EA_Installer

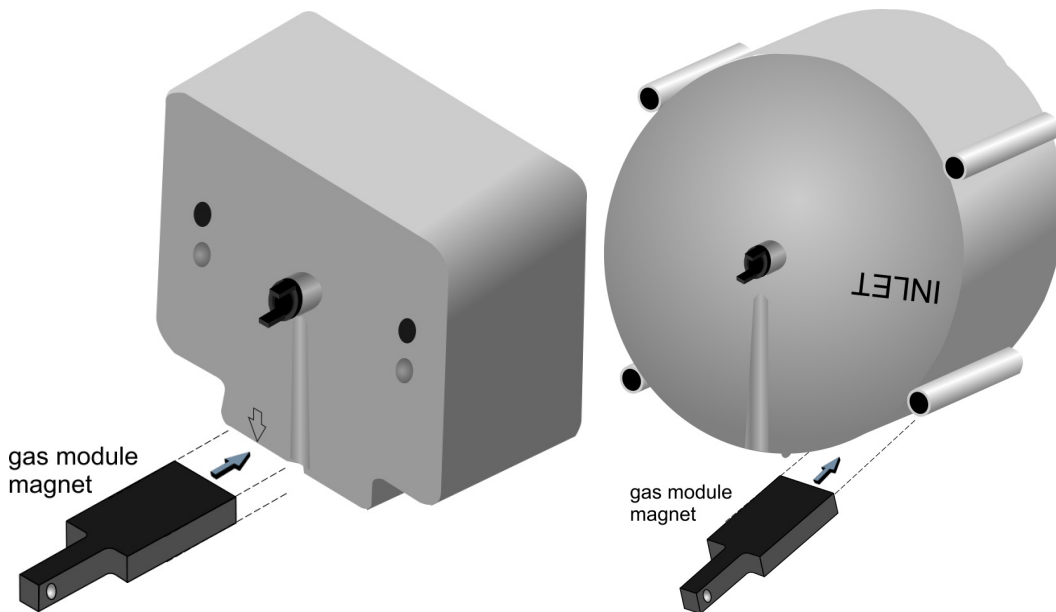
For full installation instructions and use of the EA_Installer, refer to IL42-5015 EA_Gas Module Installations Instructions.

Additional installation information specific to C&I gas meters is covered below.

Holding magnet for programming module

Hold the magnet as shown in Figure 4.

Figure 4. Holding the magnet on the module



Pre-divider values

Pre-divider values should be checked and verified during the installation process. Outlined below are the pre-divider values used for the various drives.

Drive	Pre-Divider
5-Ft	20
10-Ft	10
100-Ft	Contact Elster EnergyAxis Support

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FCC and Industry Canada Compliance

User Information (Part 15.105): This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient or relocate the receiving antenna
- increase the separation between the equipment and the receiver
- connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- consult the dealer or an experienced radio/TV technician for help

If you experience trouble with this equipment, please use the Return Material Request (RMR) feature available at the Online Customer Services at www.elstersolutions.com. Do not attempt to repair this equipment itself unless you are replacing the entire module.

Compliance Statement (Part 15.19): This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada.

Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Warning (Part 15.21): Changes or modifications not expressly approved by Elster could void the user's authority to operate the equipment.

RF Radiation Safety Guidelines per Part 2 of FCC Rules and Regulations: The meter should be installed in a location where there will be a separation greater than 20 cm from locations occupied by humans.

Industry Canada Statement: The term "IC" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

Collocation Statement: Collocation of simultaneously-transmitting (co-transmitting) antennas within 20 cm of each other in a final product is not allowed.

DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY

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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.

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