INSTRUCTIONS FOR CO₂ SENSOR FIELD CONVERSION KITS (89W39 & 89W40) FOR USE WITH SCC/SGC036/060/120/240 UNITS

Shipping & Packing List

Check for any shipping damage and that all included items (listed below) are intact. If anything is damaged, or if parts are missing, immediately contact the last carrier. CO₂ Sensor Kits includes the following items:

1 - Wiring Harness
1 - K92 Relay
1 - Bag Assembly containing
  2 - #8-32 x 1/2" Screws
  5 - Wire nuts
  2 - #6-32 x 1" Screw
1 - Wiring Diagram - CPC Control (shown in figure 7)
1 - Wiring Diagram - Novar ETM-2024 (shown in figure 8)
1 - Installation Instructions
(SCC/SGC036/060 units only)
1 - IN 89W39 ONLY—GP1 General Purpose Board

Conversion Procedure

⚠️ IMPORTANT

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer or service agency.

Install General Purpose board (GP1) and Relay (K92)

1. Disconnect all power to the unit.
2. Open control section access panels.
3. Install the relay provided in the location shown in Figures 1, 2, or 3 (depending on unit size) with the two #8-32 screws provided.

4. On SCC/SGC036/060 units, install the GP1 board provided in the location shown in Figure 1 with the two #6-32 screws provided.

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Figure 1. Installing Relay (K92) and General Purpose Board (GP1) (SCC/SGC036/060)

Figure 2. Installing Relay (K92) (SCC/SGC120)

Figure 3. Installing Relay (K92) (SCC/SGC240)
Figure 4. Installing Wiring Harness SCC/SGC036/060 Units

Install Wiring Harness

NOTE - Each harness lead has been hot stamped for ease of assembly. Encircled numbers in figures 4 through 6 correlate with the steps described below.

Depending on the size of the unit, install the harness provided in the following manner:

SCC/SGC036/060 Units (see figure 4)
SCC/SGC120/240 Units (see figure 5)
SCC/SGC120/240 Units (see figure 6)

1. Attach plug with wires marked J194−1, −3, −10, −12 to P194 on GP1 board.
2. Attach wires marked K92−1, −4, −5, −6, −7, −8, −9 to indicated terminals on K92 relay.
3. Attach wires marked 24VAC and COM to terminal block, J2/J18 on Prodigy M2/A55 Controller, respectively.
5. Units with Novar 2024 Controller—Locate white wire on the Novar DDC control module going from J79−1 on the Novar controller to J297B−6. Cut the wire near the J79 plug and strip the wire on the controller side (labeled J79−1) 3/8”. Attach harness wire marked J79−1/AUX1−6 provided in the kit to the wire marked J79−1. Leave the other cut wire loose in the harness (you will disconnect the other end of the wire in step 6 below.).
6. Units with CPC 810-3062 Controller —Locate pink wire on CPC DDC control module going to AUX1−6 on the CPC controller to P17−9. Remove wire marked AUX1−6 from the DDC controller. Attach wire marked J79−1/AUX1−6 from the harness provided in the kit to the DDC controller in the same place.
7. Attach 24VAC signal from building IOM to K92 relay coil, terminals ‘A’ and ‘B’.

NOTE - Wires from the building are rolled up inside the unit and labeled “IAQ”.
8. Depending on which control module is installed, place appropriate control diagram provided over Temperature Controls diagram.
Setting the M2 Prodigy ECTO Parameters

APPLICATION > CONTROL > ECTO > BLOCK/PARAM/COUNT

Apply power to unit. To get to the ECTO Menu on M2 controller: press enter (■); then
scroll down (▼) to SETTINGS menu and press (▼),
scroll down (▼) to CONTROL menu, and press (▼),
scroll up (▲) to (ECTO) menu. Then,
press (▼) for BLOCK/PARAM/COUNT (B#/P#/CNT#),
pres (▼) again for the first ECTO (B#) setting.

Use (▼) for the desired B#; then press (▼);
use (▼) for the desired P#; then press (▼);
use (▼) for the desired CNT#; then press enter (■).

The screen will flash (! SET !). Repeat this procedure for
the rest of the ECTO’s that need to be set. Use the (▼) but-
tton to go back if you select the wrong ECTO block and/or
parameter. No data is saved until the enter (■) button is
pressed after a count has been changed in value.

If further information is required, review the Installation &
Setup Guide for the M2 Unit Controller, located in the con-
trol compartment of your Energence® product.

Set ECTO parameters to the following for proper econo-
mizer operation:

<table>
<thead>
<tr>
<th>B#</th>
<th>P#</th>
<th>CNT#</th>
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<tr>
<td>8.16</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>8.17</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>5.26</td>
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</tr>
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Figure 5. Installing Wiring Harness SCC/SGC120 Units
Figure 6. Installing Wiring Harness SCC/SGC240 Units
Figure 8. Wiring Diagram - Novar ETM-2024