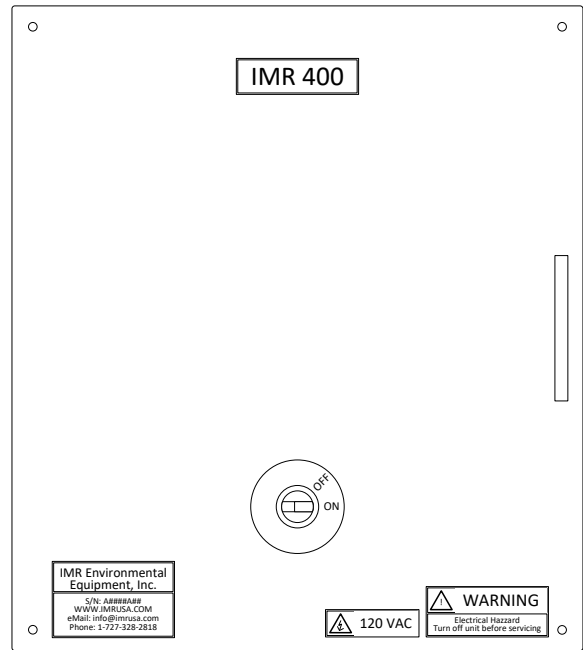
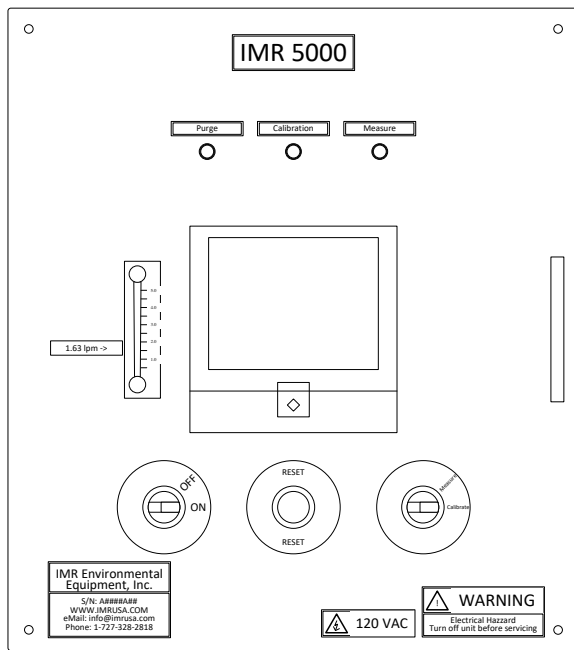


IMR[®] Environmental Equipment, Inc.

CEMS INSTILLATION MANUAL

[COMPANY NAME]

S/N: F1234X56



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INTRODUCTION

Thank you for purchasing the IMR Continuous Emission Monitoring System!

This IMR CEMS installation is a state of the art combustion gas analysis system. Proper installation and maintenance is necessary to ensure optimal operational performance.

IMPORTANT INFORMATION:

- Use the instrument within the recommended temperature range
- Never operate the system without filters
- All filters must be replaced regularly or when dirty
- IMR or an authorized service facility/technician should check and adjust the instrument on a regular schedule or as needed

SAFTEY INFORMATION

- Read this section carefully to help prevent harm to the system or personnel.
- Follow all warnings and instructions noted on the instrument or indicated on the display
- All hardware that requires AC power needs a proper earth ground
- Avoid any adjustment or maintenance of the hardware while it is powered on
- Ensure that only qualified personnel maintenance the instrument
- Do not submerge the instrument in water
- Do not spill any liquid in the instrument



INITIAL SET UP

IMPORTANT: after completing instillation the system will need to run for ~40m for the Heated Sample Line to reach operating temperature.

Install – Probes (Gas/Temperature)

- Install the provided flange for the Sampling Probe
- Connect the probe metal to the end of the heated sample line that does not have the power cord.
- Connect and adjust the Sampling Probe to the proper insertion depth
- The temperature probe has a G1/2" thread

Install –Codel 301

- A mounting stub is provided with the instrument.
- It is to be welded to the stack in a location in accordance with the included device manual.
- These instruments will have about 2m of data cable that will need to be connected to the IMR400

Install – FMD 02/09

- Refer to the individual manuals for guidance on instillation.
- Attach to the stack in a location in accordance with the included device manual.
- These instruments will have about 2m of data cable that will need to be connected to the IMR400

Install – Heated Sample Line

- Avoid making a tighter bend in this than what was present during unpacking
- Avoid repeated bending in a single location of this assembly
- If bending is not limited the internal stainless steel tube may become compromised
- NOTE: Do not add hose extensions to either end of the Heated Sample Line as this can cause unwanted condensation to form.

Install – IMR 400

- The distance of IMR 400 from the sample port should be approximately 1 meter less than the total length of the Heated Sample Line
 - This should allow for the needed bends in the heated sample line
 - Check for fit on site before finalizing mount location of the IMR 400
- Ensure that external ports on the sides and bottom of the case are not blocked at the mounting location
- Connect the Heated Sample Line end with the power cord to “Flue Gas In Heated Hose”
- Connect power for the Heated Sample line to “Power Heated Hose”
- Connect remaining external assemblies to the appropriate ports.

- Connect gas tubing to “Flue Gas Out”
- The “Condensate Out” port on the bottom of the enclosure will drip condensation
 - It is recommended to connect a hose at this location to manage the condensate
- Connect the facility compressed air line to the “Compressed Air” (if equipped with purge system)
 - Fitting is a 1/4 FMTP

Install – IMR 5000

- Ensure that external ports on the sides and bottom of the case are not blocked at the mounting location
- Connect appropriate external cabling
- Connect gas tubing to “Flue Gas In”
- Connect desired communication cables to the appropriate ports on the side of the case

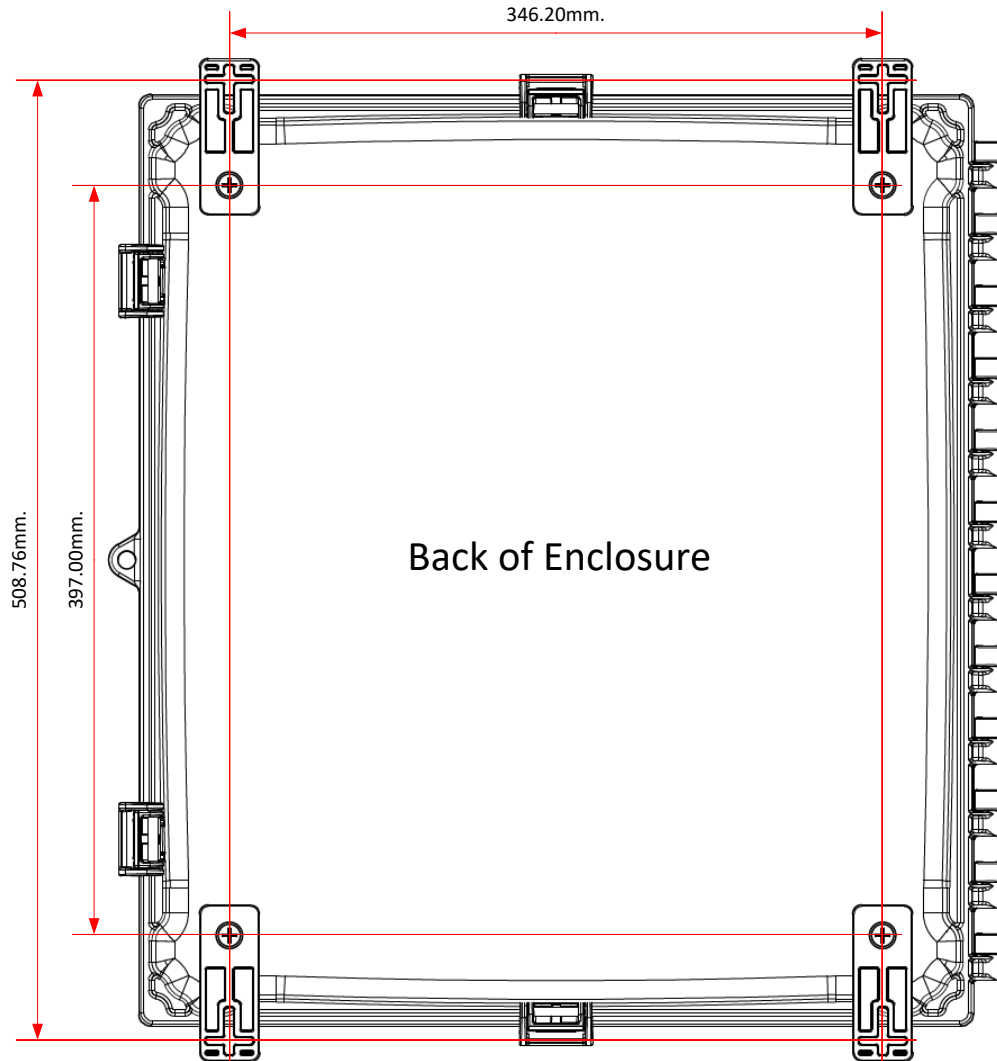
NOTE: Ensure that all mounted hardware has enough cable/tubing to reach the needed ports

Install – Power

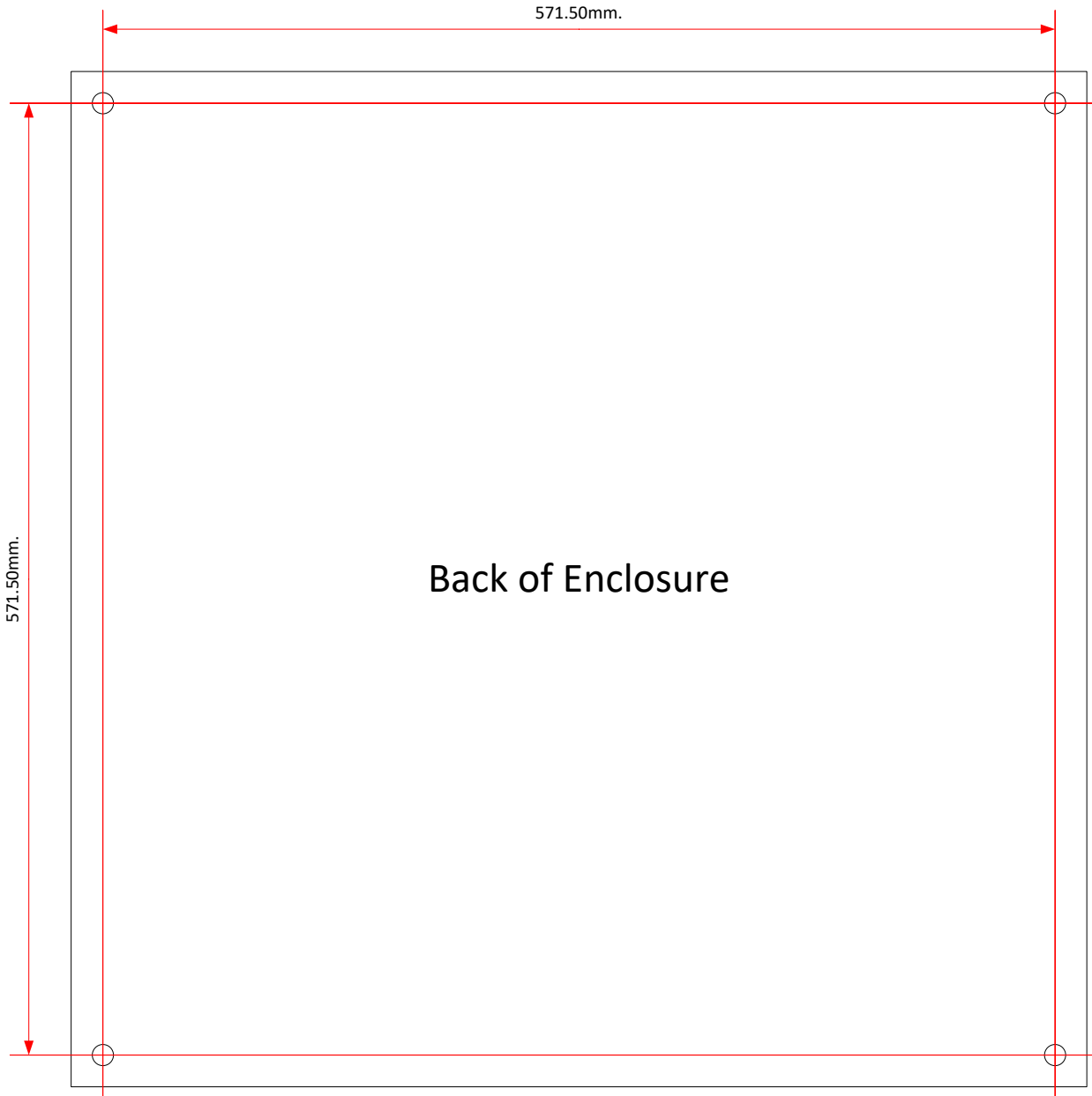
- Ensure that all Power knobs are in the OFF position before connecting to A/C
- The IMR 5000, 400 cases all require A/C power
see case for specific voltage required
- A power cord with a protective earth contact is needed to operate each unit
- A power cord is already installed for all devices that require power; please check the plug for the correct connection standard
- If the power cord is not correct, then insert the correct power cord through the cable gland at the bottom of the unit and connect it to the terminal blocks noted as appropriate

See Technical Manual for terminal block configuration.

Standard Polycarbonate Enclosure for the IMR 5000 and IMR 400



Steel Enclosure for the IMR 5000 with 12 inputs



WARRANTY

The company IMR Environmental Equipment International, Inc., 3632 Central Ave., St. Petersburg, FL 33711, USA states the following:

IMR as manufacturer hereby grants the following worldwide IMR guarantee for an IMR unit purchased from an authorized dealer.

1. The IMR guarantee shall entitle every IMR customer to demand a free replacement or repair of the defect parts of the IMR unit from any IMR dealer authorized for the respective IMR unit.
2. The IMR guarantee shall be granted on the factory new unit and shall commence on the date of the delivery of the original IMR unit to the customer.
3. The IMR guarantee shall refer to absence of faults with respect to the state of the art nature of the sold unit in terms of material and finish. The guarantee for all parts fitted during the twelve month guarantee period shall end with the unit guarantee.
4. After the establishment of a material or production fault by IMR or the authorized IMR dealer, the faults will be eliminated by means of free repair or replacement. Replaced parts shall become the property of IMR.
5. No guarantee claims may be made for maintenance and setting work, cleaning or other utility materials required for the function of the unit and other wear parts unless they have a direct bearing on work performed under the guarantee.
6. The terms and conditions for the acknowledgement of this guarantee shall be the presentation of the fully completed guarantee card which must contain the confirmation from the authorized IMR dealer on its delivery and, if applicable, the prescribed maintenance work.
7. The IMR guarantee shall only be applicable if:
 - a. the IMR unit has been maintained in accordance with the instructions issued by the manufacturers and the operating instructions by an authorized IMR dealer
 - b. only original IMR spare parts have been used for any repairs
 - c. the unit has been used properly, the operating instructions observed and the unit has not been used for a purpose other than the one for which it has been designed
 - d. the IMR unit has been left in its original design and meets the original IMR specifications
 - e. the fault is not due to external influences or use for a purpose other than the one for which it has been designed
 - f. exclusively authorized IMR dealers have made repairs to the IMR unit
 - g. the IMR unit has been sent to an authorized IMR dealer immediately after the fault was discovered
8. Warranty time for the analyzer, including electrochemical sensors is 12 months.

Company Information



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