



Quick Install Guide

This Quick Install Guide is applicable for SmartTrak® 100HP Ultra-High Pressure mass flow meters and controllers.

A copy of this Quick Install Guide, the user software, and product manual are included on the information CD included in your shipment. The information is also available for [download](#).

High Pressure Safety

Operating equipment under very high pressures involves safety risks of which you should be aware. It is VERY important that you read the [SmartTrak 100 High Pressure Safety Guide](#) and [SmartTrak 100 Series Instruction Manual, Chapter 2](#) before installing your 100HP.

Pre-Installation Safety Procedures

1. Please read all instructions and cautionary markings on the instrument, as well as all appropriate sections of the [SmartTrak 100 Series Instruction Manual](#), Chapter 2 and Appendix D before using this product.
2. General operation, display interface, PC software and electrical installation are same as a standard SmartTrak 100 Series mass flow meter and controller.
3. Verify proper connection of all pressure sources and electrical signals prior to applying pressure or power to the 100HP. See [SmartTrak 100 Series Instruction Manual, Chapter 2](#) for complete installation and operating instructions.
4. **Pressurization Procedures**



Warning!

Always bleed your pressure line down to atmospheric pressure BEFORE installation.

- Slowly apply pressure to the system. Open process valves slowly to avoid flow surges. When applying pressure to the system, take care to avoid unnecessary pressure shocks in the system.
- Check for leaks around the meter inlet and outlet connections. If no leaks are present, bring the system up to operating pressure.
- **Never test for leaks with a liquid leak detector.** If liquid seeps into the electronics or the sensor compartment, the instrument may be damaged. Instead, use a pressure---decay test (if liquid MUST be used at all, limit it to the fittings and keep it off the body of the instrument).
- Increase pressure gradually up to the level of actual operating conditions. *Follow standard practice for pressurized systems.*



Warning!

Do not operate this instrument in excess of the specifications listed on the data label, in this addendum, or in the [SmartTrak 100 Series instructional manual](#). *Failure to heed this warning can result in equipment damage, failure, serious injury or death.*

5. Apply power only after reviewing wiring diagrams printed on p.3 and in the [SmartTrak 100 Series Instruction Manual, Chapter 2](#).
6. **Do not apply power to the output loop.** This is NOT a loop-powered device.
7. Apply gas flow only after checking plumbing connections for leaks.