



## Quick Install Guide

**This Quick Install Guide is applicable for SmartTrak™ 100HF Ultra-High Pressure mass flow meters and controllers.**

A copy of the 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 pressure 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 100HF.

### 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 the product.
2. General operation, safety warnings, PC software and electrical installation are covered in 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 100HF. See [SmartTrak 100 Series Instruction Manual, Chapter 2](#) for complete installation and operating instructions.
4. **Pressurization Procedures**



#### Warning!

Always install your pressure line downstream from atmospheric pressure (PTO) 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 and controller connections. Flow 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 in the sensor compartment, the instrument may be damaged. Instead, use compressed—dry, oil-free, food grade (N2 or CO2) air used at all times to be blown and kept off the body of the instrument.
- Increase pressure gradually up to the level of actual operating conditions. Refer standard practice for pressurized systems.



#### Warning!

Do not operate the instrument at values of the specifications listed on the data label on the instrument, or in the [SmartTrak 100 Series Instruction Manual](#). Failure to heed this warning can result in equipment damage, failure, service repair or death.

5. Apply power only after verifying 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.