Paramount Quick Start Guide

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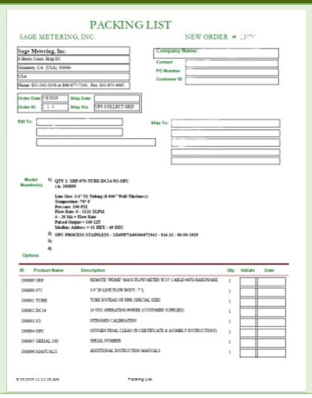
- Wiring diagrams
- User manuals
- Communication guides
- Other technical documentation on sagemetering.com

Technical Docs

Step	Description	Installation Diagrams
1	PACKAGE CONTENTS: Confirm that your order has all equipment and accessories referenced in the packing list.	
2	INSERTION-STYLE FLOW METER DIAMETER CHECK: Check that the internal pipe diameter (ID) matches the pipe ID shown on the Certificate of Conformance.	SAGE METERING INC. **PRODUCT QUALITY CERTIFICATE OF CONFORMANCE** **Product Inspection & Quality Statement** All individual parts and components which make up the product being provided have been inspected and approved for manufacture. In addition, subassemblies have been inspected, tested, and accepted for final assembly. Each completed assembly has been final tested and approved for shipment. **Conformance Statement** SAGE Metering Incorporated certifies this instrument was tested in compliance with ANSI/NCSL Z540 and ISO/IEC 17025 requirements. SAGE Metering, Inc. calibration services are derived from MIL-STD-45662A. All Sage Meters are Met Labs approved and Met Labs is a Nationally Recognized Testing Laboratory (NRTL) which is recognized by OSHA. The tests are performed using measuring & test equipment with certified NIST traceability. (Applicable NIST numbers are available upon request). Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced after written permission is granted by SAGE Metering, Inc.
3	FLOW DIRECTION: Verify the straight-run requirements based upon pipe ID and meter style.	**IMPORTANCE OF FLOW CONDITIONING** **Recommended Pipe Diameters Upstream**

DISTURBANCE	*Without* Flow Conditioning Minimum Industry Recommendation	*With* Flow Conditioning[1] Sage Recommendation
One 90° Elbow	25	3
Two 90° Elbows in the Same Plane	36	5
Two 90° Elbows in Different Planes	62	9
4:1 Area Reduction	18	3
4:1 Area Expansion	84	10
Multiple Disturbance	TBD	TBD

[1] This column applies to in-line flow meters, which come standard with built-in flow conditioners, as well as insertion meters, when installed with upstream Captive Flow Conditioners.

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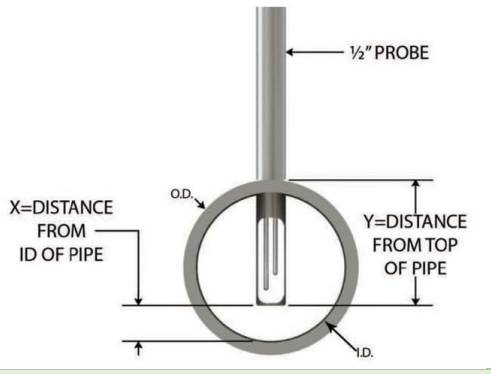
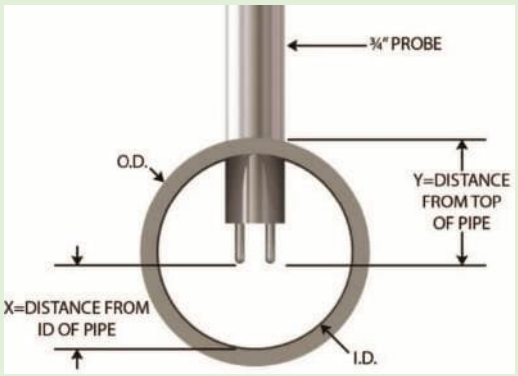
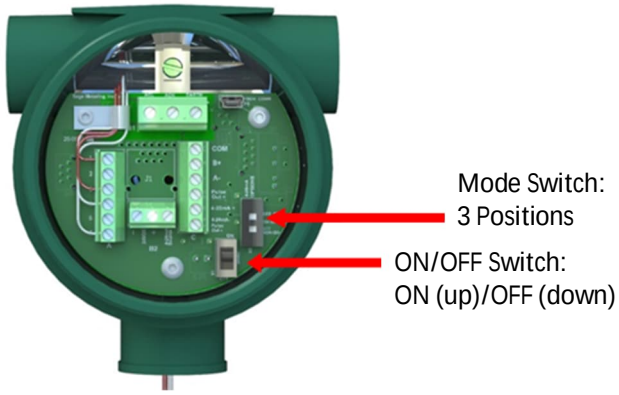
4a	VERIFY CORRECT PROBE DEPTH SETTING: 1/2-Inch Probe Refer to section in user manual: *1/2" Probe Diameter Installation*	
4b	VERIFY CORRECT PROBE DEPTH SETTING: 3/4-Inch Probe Refer to section in user manual: *3/4" Probe Diameter Installation*	
5	POWER AND MODE SWITCHES: Remove the flow meter back cover and verify: POWER SWITCH "ON": Set the power switch in the "up" position. MODE SWITCH: Check for the correct position: TOP: 12-24 VDC external power, HART compatible MIDDLE: 15 VDC internal power, HART compatible BOTTOM: 24 VDC internal power, non-isolated	

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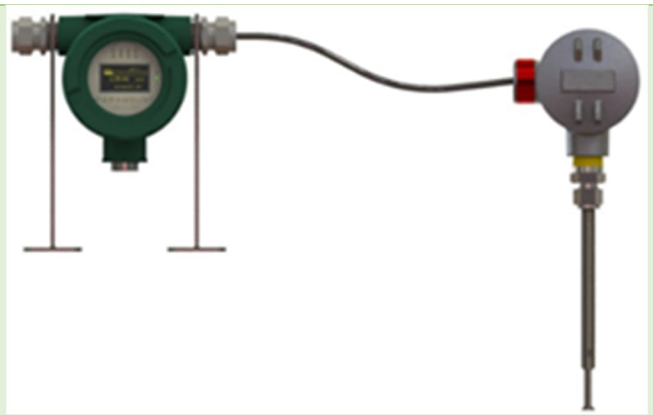
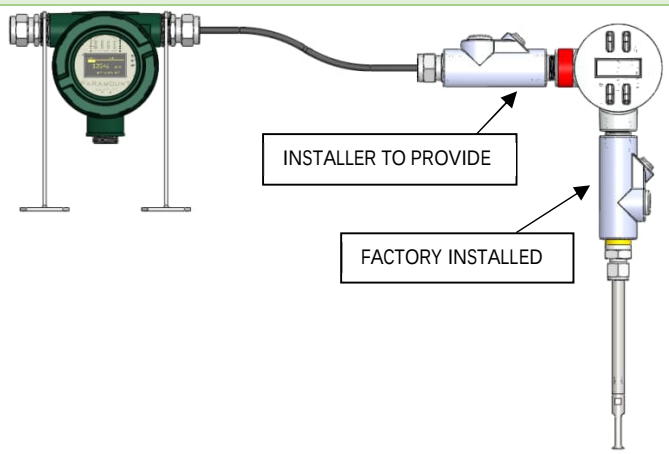
6	REMOTE-SENSOR WIRING: Remove the flow meter back cover and remote sensor probe front cover and verify wiring connectivity. POWER SWITCH "ON": Set the power switch in the "up" position. Refer to section in user manual: *Appendix B - B10: Remote Cable Wiring Connections*	
7	REMOTE-SENSOR CID1 APPROVAL (HARDWARE): To maintain the Class I, Division 1 (C1D1) approval category, the installer shall provide a hazardous-location rated cable gland or cord grip as the barrier at the enclosure entry. Refer to section in user manual: *Class I Div 1 Hazardous Location*	

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