200-300 Series Quick Start Guide

Scan the QR code to access:

- 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.	**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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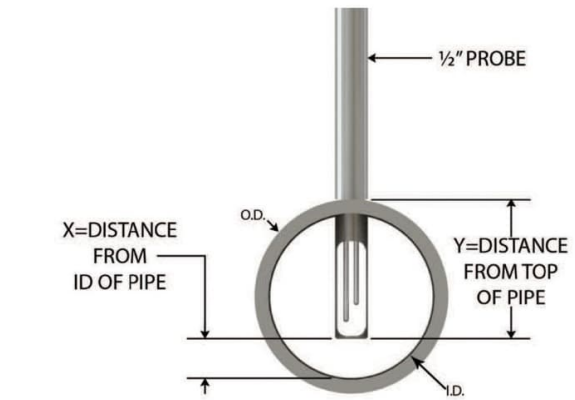
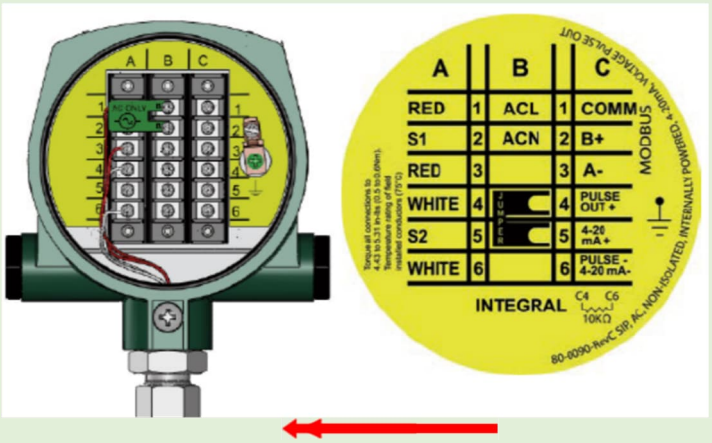
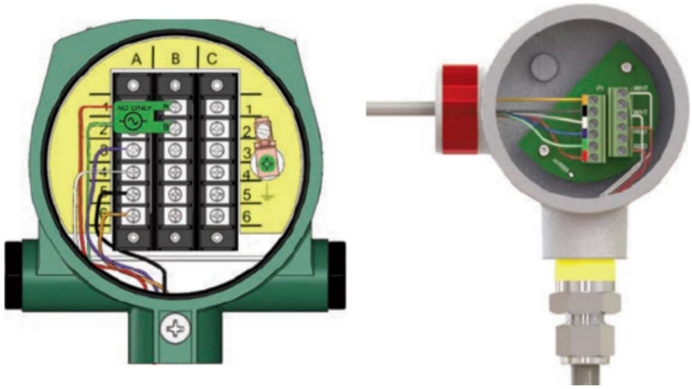
4	VERIFY CORRECT PROBE DEPTH SETTING: 1/2-Inch Probe Refer to section in user manual: *1/2" Probe Diameter Installation*	
5	POWER SOURCE and 4-20mA WIRING: Remove the flow meter back cover to verify wiring connectivity for integral and in-line meters. *Scan QR Code for Wiring Diagrams* 4-20mA & VDC PULSE OUT 24VDC 4-20mA & mA PULSE OUT 24VDC Isolated 4-20mA & VDC PULSE OUT 24VDC Isolated 4-20mA & mA PULSE OUT 24 VDC 4-20mA & VDC PULSE OUT 120/240 VAC Nominal 4-20mA & mA PULSE OUT 120/240 VAC Nominal	
6	REMOTE-SENSOR WIRING: Remove the flow meter back cover and the remote sensor probe front cover to verify wiring connectivity. Refer to section in user manual: *Remote Cable Wiring* FROM REMOTE SENSOR CABLE, CONNECT WIRE CONDUCTORS TO TERMINAL BLOCK A ON METER POS. 1 RED POS. 2 GREEN POS. 3 BLUE POS. 4 WHITE POS. 5 BLACK POS. 6 ORANGE	

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