

CAUTION: Over tightening the knob when turning the Flowmeter off will cause damage. The flowmeter **MUST** be positioned vertically to ensure maximum accuracy.

WARNING: The Flow Tube specifies the gas and pressure required. The accuracy will be affected if a different pressure, other than the one specified, is used.

3. Connect the Flowmeter to the supply pressure specified on the Flow Tube.

NOTE: Supply pressure of 50 PSI or 60 PSI.

WARNING: The accuracy may be affected if the temperature of the gas is different than 70° F (21° C) and the supply pressure is different than that indicated on the Flow Tube.

NOTE: The accuracy of the flow will not be affected by the attachment of accessories, however, the indicated flow may change.

WARNING: Connection to the gas source must be done by using only the appropriately indexed fitting.

4. Ensure that the Float Ball is at the very bottom of the Flow Tube when turned off.

NOTE: If the Float Ball is not at the bottom of the Flow Tube, the Flowmeter could be leaking. Please contact your dealer or Ohio Medical, LLC.

5. Adjusting the Flow: To DECREASE Flow: Turn the knob clockwise
To INCREASE Flow: Turn the knob counter clockwise

6. To set the flow, align the center of the float ball to the indicator line on the Flow Tube.

WARNING: To avoid injury ALWAYS confirm flow requirement for patient prior to dispensing. Check flow frequently while being administered to patient.

7. If the flow is adjusted beyond the highest calibrated indicator, an undetermined flow will arise.

8. Turn knob completely counter clockwise to achieve maximum flood/ flush flow.

NOTE: Any flow beyond the highest calibrated line on the Flow Tube with unrestricted flow is Flood/Flush flow.

Cleaning Instructions

Use a clean damp cloth with a mild cleaning solution to wipe outside of product. **DO NOT** gas sterilize with Ethylene Oxide (ETO). **DO NOT** clean with pungent hydrocarbons.

CAUTION: **DO NOT** submerge product in any form of liquid. This will cause damage and void the warranty.

Troubleshooting

If the Flowmeter does not function properly, contact your dealer or equipment provider.

Maintenance Prevention

Before and after each use, **INSPECT THE FLOWMETER FOR DAMAGE.**

WARNING: When changing connectors on the Flowmeter for service or replacement, **NEVER** re-attach connectors of a different gas. Doing so may result in patient injury or damage to the equipment.

CAUTION: Disconnect Flowmeter from gas supply **BEFORE** SERVICING.

WARNING: Ensure shroud is securely tightened to prevent disconnection under pressure. Turn Clockwise to tighten.

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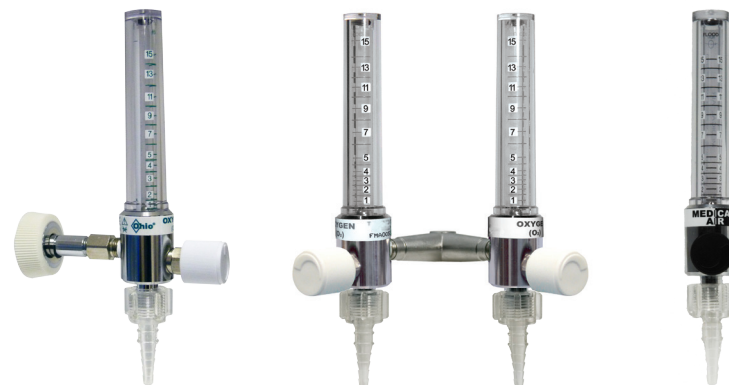
OPERATING AND MAINTENANCE MANUAL

PRESSURE COMPENSATED FLOWMETERS

7700-XXXX-XXX
Oxygen/Medical Air



ANSI Versions



ISO Versions

Rx ONLY

Flowmeters shown with optional Clear Nut & Nipple

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IMPORTANT: SAFETY INSTRUCTIONS

This manual provides you with important information about the Flowmeter and should be read carefully to ensure the safe and proper use of this product.

READ AND UNDERSTAND ALL THE SAFETY AND OPERATING INSTRUCTIONS CONTAINED IN THIS BOOKLET BEFORE USING THIS PRODUCT.

IF YOU DO NOT UNDERSTAND THESE INSTRUCTIONS, OR HAVE ANY QUESTIONS, CONTACT YOUR SUPERVISOR, DEALER OR THE MANUFACTURER BEFORE ATTEMPTING TO USE THE APPARATUS.

⚠ WARNING: Indicates a potentially hazardous situation, if not avoided, could result in death or serious injury.

ATTENTION: Indicates a potentially hazardous situation, if not avoided, could result in minor or moderate injury.

CAUTION: Indicates a potentially hazardous situation, which, if not avoided could result in damage to the device or other property.



Caution, consult accompanying documents

→ ⊕ Read Lpm

Use no oil

SN Serial Number

Symbol indicates the device complies with the requirements of Directive 93/42/EEC concerning medical devices (on CE marked devices only)

Receiving Inspection

Remove product from package and inspect for damage. If product is damaged, DO NOT USE and contact your dealer or equipment provider.

CAUTION: The tube inside the 0-200 CCM and 0-1 LPM flowmeter is made of glass and is fragile. Special care should be taken to avoid breaking the glass.

ATTENTION: It is very important to allow product to remain in original packaging for 24 hours to acclimate to room temperature before use.

ATTENTION: Store the product in a sealed package to avoid environmental damage. The operating and storage temperature for the Flowmeter should reflect typical environmental conditions of a medical facility environment.

User Responsibility

⚠ WARNING: Service of this device should ONLY be performed by properly trained individuals. The Flowmeter must ONLY be used under the direction of a healthcare professional who is trained in its use.

This product performs as explained in this manual, as long as the assembly, use, repair and maintenance are properly followed according to our instructions. Periodic review of this device is recommended. If any damage or defects are present, the product should not be used. This includes parts that may have been altered, contaminated, worn or missing. If any of the above are noted, immediate repair / replacement is required. In compliance with the manufacturers warranty, repair of this device is not to be performed by anyone other than a qualified professional. If this device is subject to improper maintenance, repair, use and/or abuse leading to malfunction of the device, replacement is the sole responsibility of the user. In compliance with the Ohio Medical warranty, repair of this device is not to be performed by anyone other than an Ohio Medical trained professional and done in strict accordance to the written instructions provided by Ohio Medical. If this device is subject to improper maintenance, repair, use and or abuse leading to malfunction of the device, replacement is the sole responsibility of the user.

⚠ WARNING: Due to the possibility of explosion caused by static charge, operation of this device is not to be done if flammable anesthetics are present.

TO MINIMIZE THE RISK OF EXPLOSION OR FIRE:

- NEVER attempt to attach a Flowmeter directly to a cylinder.
- NEVER use grease, oil, organic lubricants or flammable materials on or near the Flowmeter.
- NEVER smoke in an area where oxygen is being used.
- NEVER use any type of flame or flammable or explosive material near the Flowmeter.
- ALWAYS follow CGA and ANSI standards for Flowmeters and Medical Gas Products (E-7) and Oxygen Handling (G-4).

ATTENTION: Keep the Flowmeter in a clean area when not being used.

ATTENTION: Ensure that all connections are tightened and free of leaks prior to use. Use only an oxygen-safe leak detector when testing for leaks.

⚠ WARNING: Each Flowmeter can only be used with one type of gas.

Intended Use

A compensated thorpe tube flowmeter is a device intended for medical purposes that is used to control and measure gas flow rate accurately. The device includes a vertically mounted tube, with the outlet of the flowmeter calibrated to a reference pressure.

Specifications

Gas	Scale	Increments	Accuracy Averages	Max. Flood/Flush	Transport/Storage Requirements
Oxygen	0-200 CCM*	25 CCM (starts at 25 CCM)	+/- 20 CCM	500 CCM	-40°F to 140°F (-40°C to 60°C)
Oxygen	0-1 LPM	0.1 LPM (starts at 0.1 LPM)	+/- 0.1 LPM	2.5 LPM	-40°F to 140°F (-40°C to 60°C)
Oxygen	0-3.5 LPM* LoFlo	0.125 LPM (from 0.125 to 1 LPM) 0.25 LPM (from 1 to 3.5 LPM)	+/- 0.125 LPM or +/- 10% of reading (whichever is greater)	45 LPM	-40°F to 140°F (-40°C to 60°C)
Gas	Scale	Increments	Accuracy Averages	Min. Flood Flush	Transport/Storage Requirements
Oxygen & Medical Air	0-15 LPM	0.5 LPM (from 1 to 5 LPM) 1 LPM (from 5 to 15 LPM)	+/- 0.5 LPM or +/- 10% of reading (whichever is greater)	50 LPM	-40°F to 140°F (-40°C to 60°C)

*For use in Neonatal, Pediatric and other low flow applications

⚠ WARNING: Prior to administering medical air or oxygen, confirm required flow and frequently monitor the flow.

⚠ WARNING: 0-200 CCM, 0-1 LPM and 0-3.5 LPM Flowmeters are NOT to be used for resuscitation.

Flowmeters are calibrated at the pressure indicated on the flow tube at 70° F (21° C), standard atmospheric pressure. Specifications are subject to change without prior notice.

⚠ MRI WARNING: This product contains magnetic, ferrous material that may affect the result of an MRI. MR conditional options may be available.

Operating Instructions

1. Turn Flowmeter off by turning knob fully clockwise.
2. Inspect the Flowmeter for damage. If any damage is found, DO NOT use the Flowmeter.