



MATHESON

The Gas Professionals

8515 Series Manual Cylinder Scale



Instructions

*READ AND COMPLY WITH THESE INSTRUCTIONS BEFORE
INSTALLING, OPERATING, OR SERVICING*

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I. SERVICE

General Service

A unit which is not functioning in a normal manner should be removed from service until such time that repairs or replacement can be made. Upon completion of repair, full testing should be performed to assure the user that the unit has been returned to its original operating parameters. MATHESON can repair or replace equipment. To arrange for repair or replacement service, call 1-800-828-4313 and ask for the Warranty Administrator. **No product will be received by MATHESON without indication of gas service and without proper return material authorization provided by the warranty administrator. (All repairs must be made by MATHESON or an assigned and approved facility to maintain any warranties or guarantees).**

If the unit is under an applicable warranty, return the unit to MATHESON for repair or replacement. To arrange for warranty service, call 1-800-828-4313 and ask for the Warranty Administrator. **No product will be received by MATHESON without indication of gas service and without proper return material authorization provided by the warranty administrator.**

If advised by the Warranty Administrator to return the product to MATHESON, prepare the product for shipment and write, in large lettering the RMA Number assigned by the Warranty Administrator on the outside of the box. Also, if required by the Warranty Administrator, supply the completed RMA form with the product. Make sure that the product is adequately packaged, in the original shipping container if possible, and shipped prepaid (MATHESON will not accept COD freight) with a description of the observed deficiency to the attention of the:

Warranty Administrator
MATHESON
166 Keystone Drive
Montgomeryville, PA 18936

The user is expected to periodically inspect the product for leaks, loose or worn parts, broken or non-functioning components and to address those situations immediately. If the user would require verbal assistance in ascertaining the potential of a problem with any MATHESON product, contact the local MATHESON branch for assistance or your MATHESON Sales Representative.

II. LIMITED WARRANTY

This equipment is sold by MATHESON under the warranties set forth in the following paragraphs. Such warranties are extended only with respect to the purchase of this equipment directly from MATHESON or MATHESON's Authorized Agent as new merchandise and are extended to the first Buyer thereof other for than the purpose of resale.

For a period of one year from date of original delivery (ninety days in corrosive service) to Buyer or to Buyer's order, this equipment, is warranted to be free from functional defects in materials and workmanship and to conform to the description of this equipment contained in this manual and any accompanying labels and/or inserts, provided that this equipment is properly operated under the conditions of normal use and that regular and periodic maintenance and service is performed or replacements are made in accordance with the instructions provided. Expendable parts of this equipment are similarly warranted to be free from functional defects in materials and workmanship and to conform to the description of this equipment contained in this manual and any accompanying labels and/or inserts. The foregoing warranties shall not apply if the equipment has been repaired other than by MATHESON or a service facility designated by MATHESON, or if this equipment has not been operated and maintained in accordance with written instructions provided by MATHESON, or has been altered by anyone other than MATHESON, or if the equipment has been subject to abuse, misuse, negligence or accident.

MATHESON's sole and exclusive obligation and the Buyer's sole and exclusive remedy under the above warranties is limited to repairing or replacing, free of charge, at MATHESON's sole discretion, the equipment or part which is telephonically reported to be a problem to the local MATHESON Branch Location, and which if so advised, is returned with a written statement of the observed deficiency, not later than seven days after the expiration of the applicable warranty, to the MATHESON Gas Equipment Technology Center during normal business hours, transportation charges prepaid, and which, upon examination, is found to comply with the above warranties. The Buyer shall pay for return trip transportation charges for the equipment or part.

MATHESON shall not be otherwise liable for any damages including but not limited to incidental damages, consequential damages, or special damages, whether such damages result from negligence, breach of warranty or otherwise.

There are no express or implied warranties that extend beyond the warranties hereinabove set forth. MATHESON makes no warranty of merchantability or fitness for a particular purpose with respect to the equipment or parts thereof.

Acceptance of the equipment by the final buyer indicates the final buyer's acceptance of all warranties and limitations set forth above.

III. USER RESPONSIBILITY

This equipment will perform in conformity with the description thereof contained in this manual and accompanying labels and/or inserts when installed, operated, maintained and repaired in accordance with the instructions provided. This equipment must be checked periodically, with the frequency of such inspections depending upon the scope of use. Damaged, worn or contaminated equipment should not be used. Parts that are broken, missing, plainly worn, distorted or contaminated should be replaced immediately. Should such repair or replacement become necessary, MATHESON recommends that a telephonic or written request for service advice be made to the MATHESON Equipment Engineering Group in Montgomeryville, Pennsylvania or to the nearest MATHESON branch location.

This equipment or any of its parts should not be altered without the prior written approval of MATHESON Equipment Engineering Group. The user of this equipment shall have the sole responsibility for any malfunction, which results from improper use, faulty maintenance, damage, improper repair or alteration by anyone other than MATHESON or a service facility designated by MATHESON. Further, the ultimate user of the equipment is responsible for the training and safe operation of the equipment by personnel in his/her employ.

IV. YOUR NEW SCALE

Congratulations on the purchase of this MATHESON Cylinder Scale. The Model 8515 Manual Cylinder Scale is designed to provide an accurate indication of the amount of product remaining in the cylinder. An easy-to-read, color coded, dual dial scale in pounds and kilograms allows the user to subtract the tare weight of the cylinder to monitor the net contents.

Please enter the Serial Number, which is located on the scale serial plate. Retain this information for future reference.

SERIAL NO _____

FEATURES

- Rugged design with stainless steel cover
- Weighing portion of dial graduated in fluorescent green and tare portion of dial graduated in fluorescent red
- Scale readout located at top of scale housing
- Provides monitoring of cylinder contents
- Mechanical in function, inherently explosion proof
- Economical
- Can be used in any plant or laboratory

PRECAUTIONS

1. Standard safety precautions.
2. Wear safety glasses.
3. The maximum load of cylinder and contents is 300 pounds.
4. Using Cylinder Scale Ramp (R8515) is strongly recommended.
5. Allow clearance on all sides of scale platform for accurate weighing.
6. Do not drop cylinders on the scale platform.
7. NEVER EXCEED THE RATED CAPACITY OF THE SCALE.
8. Make sure that the scale and ramps are properly secured to the floor (most models).

BEST CONDITIONS FOR WEIGHING

1. The scale should be level.
2. Best operating temperature is about 68 degrees F.
3. The weighing area should be kept clean and dry.
4. The surface that the scale is resting on should be of solid construction and not prone to vibrations.
5. Don't install the scale near heater or air conditioner vents.
6. Avoid drafts.

INITIAL SET-UP AND OPERATION

1. Carefully unpack scale from shipping carton. Save packing material for possible future use.
2. If the level legs are included separately, then screw one into each corner underneath the scale.
3. Place scale on a level surface and adjust the level legs so that all four legs are touching the surface.
4. If you are using the recommended Cylinder Scale Ramp (R8515) fix it to the floor using the mounting holes provided. This way the ramp will not move during normal use. Be careful not to let the scale platform rub up against the ramp or any other surface, as this would cause non-repeatability or other inaccuracies.
5. Put the scale through several weighing cycles consisting of: Stepping on the scale and allowing the dial to come to reset and then stepping off the scale allowing the dial to come to reset.
6. After the weighing cycles are completed, adjust the dial to zero (adjustment knob is under the edge of the platform opposite the dial opening), and if necessary, repeat weighing cycles until zero is stabilized.

V. WEIGHING PROCEDURE

Full Cylinder Procedure When Contents of Cylinder is Known

1. Place the full cylinder on the scale weighing surface by rolling the cylinder up the ramp provided and secure the cylinder with a safety strap or chain in a way that will not obstruct the cylinder's vertical movement. The scale provides a stable base so that a small amount of slack in the safety strap or chain will not present a problem. A pressure regulator or other gas control device should be installed on the cylinder valve or a panel adjacent to the scale. It is important the connection between the cylinder on the scale and the downstream gas systems be flexible to provide freedom of vertical movement; this is usually accomplished with coiled tubing (pigtail) or flexible hose of a pressure rating equal to or greater than the pressure contained in the cylinder.
2. Rotate the tare set knob (located at the rear of the scale) until the known weight of the gas in the cylinder appears on the green area of the scale dial. The scale now shows only the weight of the gas contents and will monitor the usage.

Procedure When Contents of Cylinder is Unknown

1. The tare or empty weight of the cylinder is generally provided on a tag attached to the cylinder or stamped into the shoulder of the cylinder itself. The regulator and/or other devices attached to the cylinder must be weighed prior to installation so that their weight may be added to the tare weight of the cylinder.
2. The combined weight of the cylinder and the control devices is now set on the red portion of the scale dial. The tare set knob is located at the rear of the scale.
3. Place the cylinder on the scale weighing surface by rolling the cylinder up the ramp provided and secure the cylinder with a safety strap or chain in a way that will not obstruct the cylinder's vertical movement. The scale provides a stable base so that a small amount of slack in the safety strap or chain will not present a problem.
4. The net weight of the gas in the cylinder will appear on the green portion of the scale dial.

VI. SPECIFICATIONS

- Tare Range: 0-140 lbs. (0-65 kg)
- Total Capacity: 300 lbs (130 kg)
- Graduated in 5 lb (2 kg) divisions
- Readability: 1 lb (0.5 kg) by estimation
- Physical Dimensions: 10-3/4" x 10-1/4" x 2" high
- Weight Range: 0-140 lbs (0-65 kg) not including tare
- Accuracy: +/-5 lbs of actual weight



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TERMS AND CONDITIONS OF SALE

<http://www.mathesongas.com/pdfs/products/Terms-and-Conditions-of-Sale.pdf>