### Advanced Application Modes

**Weighing**  
Determine the weight of items in the selected unit of measure.  
- Dynamic Weighing:  Optimum hold function allows for a sample to be weighed and held in order to compute the average deviation of a number of samples and the statistics data can be displayed.
- Density Determination:  Calculate the density of a sample using the sample weight and volume.
- Formulation:  Determine the composition of a mixture by measuring the individual components and subtracting the deviation from the total.
- Check Weighing/Counting:  Compare the weight/count of a sample against a pre-defined value.
- Parts Counting:  Advanced automatic part counting with functionality for auto-filling system.
- Differential Weighing:  Subtract the initial weights.

**Filling**  
Fill a container to a target weight. Progress bar and external check lights.  
- Fill a container to a target weight.
- Differential Weighing.

**Parts Counting**  
Count samples of airborne weight. Advanced automatic part counting with functionality for auto-filling system.

**Percent Weighing**  
Measure the weight of a sample displayed as a percentage of a pre-established reference weight.

**Sieve Analysis**  
A procedure or practice used to assess the particle size distribution (also called gradation) of a granular material.

### Outline Dimensions

**Model R71MD3**  
- **Dimensions:** 377 × 311 × 12 mm
- **Net Weight:** 6.8 kg
  
**Model R71MD6**  
- **Dimensions:** 377 × 311 × 128 mm
- **Net Weight:** 13.4 kg

### Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight Units</th>
<th>Sensitivity</th>
<th>Capacity</th>
<th>Readability</th>
<th>Linearity/Repeatability</th>
<th>Certified/Approved Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>R71MD3</td>
<td>3 kg × 0.0001 kg</td>
<td>10 mg</td>
<td>3,000 g</td>
<td>0.1 g</td>
<td>0.002%</td>
<td>6,000 g × 0.1 g</td>
</tr>
<tr>
<td>R71MD6</td>
<td>6 kg × 0.0002 kg</td>
<td>20 mg</td>
<td>6,000 g</td>
<td>0.2 g</td>
<td>0.004%</td>
<td>15,000 g × 0.2 g</td>
</tr>
</tbody>
</table>

For Ranger 7000, there is one outstanding feature that makes OHAUS industrial products the right tools for your toughest weighing jobs. Ranger 7000 boasts the highest resolution, largest display, most application modes and connectivity options, as well as the largest memory library of any industrial bench scale in the OHAUS portfolio.

#### Ranger 7000 Compact Bench Scales

- **Cutting-Edge SmarText™ 2.0 Software**  
  - Simplify complex applications and minimize the need for manual calculations with 10 advanced application modes, peripheral device control and an optional kit for a second scale platform.
- **Fast Performance and Legal for Trade Certifications**  
  - Assure Accurate Results
- **Sturdy Industrial and Modular Design**  
  - Support Flexible and Heavy-Duty Use
- **Advanced Features Take Industrial Weighing to the Next Level**  
  - Advanced functionality of Ranger 7000 is simple to use with minimal training.
Sturdy Industrial and Modular Design Support Flexible and Heavy-Duty Use
It is a common knowledge that industrial scales are not always delicately handled and Ranger 7000 was built to withstand heavy duty usage. Ranger 7000 has a die-cast sealed metal indicator, housing ensuring accuracy and long term operation in even the most demanding industrial environments. The indicator can be separated from the platform and mounted to the wall or bench with the optional mounting kit accessory, allowing you to customize the placement of your scale based on the size and setup of your workstation. Additionally, a weigh below hook offers the functionality to perform specific gravity tests or weigh items that cannot be easily placed on the weighing platform.

Cutting-Edge SmarText™ 2.0 Software Powers the Technologically Advanced Ranger 7000
The SmarText 2.0 interface can be easily used by the Ranger 7000 for all of its unique and advanced features quickly. SmarText 2.0 makes an advanced scale very simple to use and will greatly reduce training time for operators. It is also simple to set up and can be configured with just a few button presses. Ranger 7000 has a bright backlit display and navigation panel that is comprised of a keypad with 5 quick, 8 function, and 12 alphanumeric keys and a 109-mm-graphic display, which can be operated in multiple languages.

Standard Connectivity with Flexible Options
The data produced by Ranger 7000 can be easily exported through the standard RS232 or USB device port. Additional connectivity options include a second RS232 or Ethernet, and standard USB host port for bar code scanner or flash drive. Through the RS232/USB/Ethernet and barcode scanner, a complete inventory control system can be set up through a single scale, considerably reducing the investment associated with more complex systems. With full GLP/GMP data output, Ranger 7000 can help meet traceability and GLP/GMP data output requirements.

Advanced Features Take Industrial Weighing to the Next Level
With ten advanced application modes, including formulations, sample analysis and density weighing, Ranger 7000 can meet the weighing and measurement needs of practically any industrial application or manufacturing process. Many application modes eliminate the need to do lengthy and complicated manual calculations. Ranger 7000 contains a 2000 item library for storing of weighing check, counting, and filling data and 30 item library for formulation and sieve analysis data, ensuring abundant space for all data storage needs. With the cable and remote base option, you can connect OHAUS balance for more accurate sampling and a floor scale platform or bench scale base with higher capacity in order to achieve precise results for a job of any size. Results from both scale and remote base can be displayed at the same time. Ranger 7000 can control many peripheral devices through the optional Discrete I/O interface (provide 2 input ports and 4 output ports), which can be used for accurate weight measurement in filling and checkweighing applications.

Steady Performance and Legal for Trade Certifications Assure Accurate Results
Ranger 7000 standard models have an extremely precise display resolution up to 7,000d (7,000d certified). The high resolution models can only be ordered by the Ranger 7000 high resolution models which offer a maximum 350,000d (35,000d certified) resolution. R71MHD35 drives extreme precision with 0.1g readability for demanding industrial processing and testing applications where capacity and high resolution precision is the standard.

All high resolution models models also come standard with AutoCal™ which ensures performance and assists with routine maintenance by automatically calibrating the balance daily. This feature can be turned on or off by the user, depending on the application.

• Self-calibrates the system when it senses a change in temperature, sufficient enough to affect weighing accuracy or every 11 hours.
• Performs routine calibration and reduces the need for external services.

No matter which version you choose, you can be guaranteed that your results will be available in just one second from the time the load is placed on the platform, improving operator efficiency, productivity, and throughput. This ideal combination of features ensures two of the most important aspects of your weighing results: that they are quickly and accurately delivered.

Other Standard Features and Equipment
• Rechargeable Battery Kit
• Second Scale Kit
• Cable Extension Kit, 9m
• Ethernet Kit
• 2nd RS232 Kit
• Alibi Memory Kit
• USB/Ethernet and barcode scanner, a complete inventory control system can be set up through a single scale, considerably reducing the investment associated with more complex systems. With full GLP/GMP data output, Ranger 7000 can help meet traceability and GLP/GMP data output requirements.

Print Templates
A total of six print templates are available to ensure you can print out all of the data you need. Simple template is pre-defined for quick printing, as well as five templates you can customize so you can print the exact information necessary for your application, eliminating confusion and time to sift through data. Custom is pre-defined as Slave template, you can still customize it according to your needs.

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