

# Bin Inventory Monitoring System

A scale sits under each storage bin and counts the parts inside by weight. Stock levels report to a cloud portal in real time — no counting, no scanning, no stocktake.



|                                                                                      |                                                                                     |                                                                                      |                                                                                      |                                                                                      |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <div>⚖️ Max 10.00 kg</div> <div>Weight in bin 10.00 kg</div> <div>Part count 2</div> | <div>⚖️ Max 10.00 kg</div> <div>Weight in bin 6.25 kg</div> <div>Part count 3</div> | <div>⚖️ Max 10.00 kg</div> <div>Weight in bin 3.20 kg</div> <div>Part count 14</div> | <div>⚖️ Max 10.00 kg</div> <div>Weight in bin 1.15 kg</div> <div>Part count 23</div> | <div>⚖️ Max 10.00 kg</div> <div>Weight in bin 0.75 kg</div> <div>Part count 54</div> |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|

|                                              |                                               |                                            |                                        |
|----------------------------------------------|-----------------------------------------------|--------------------------------------------|----------------------------------------|
| <div>127</div> <div>DEVICES PER PORTAL</div> | <div>IP54</div> <div>INGRESS PROTECTION</div> | <div>18 mm</div> <div>PROFILE HEIGHT</div> | <div>1 Hz</div> <div>SAMPLE RATE</div> |
|----------------------------------------------|-----------------------------------------------|--------------------------------------------|----------------------------------------|

SYSTEM COMPONENTS

|                                                                                                                                                                                        |                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><b>Scale</b> MBS-xxxx</div> <div>Slim platform under a standard bin. Measures load and converts it to a live part count. Four footprints, five capacity ratings, or custom.</div> | <div><b>Portal</b> MBS-PORTAL</div> <div>Network interface — powers and reads up to 127 scales. Connects via Ethernet or Wi-Fi and streams data to the cloud portal.</div> |
| <div><b>Display</b> MBS-DISPLAY</div> <div>10.1" touchscreen that drives a chain directly. No separate Portal required for standalone reading at the rack.</div>                       | <div><b>Cloud portal</b> MBS-CLOUD</div> <div>Browser-based inventory app with live counts, alerts, trends, consignment tracking and ERP connectors.</div>                 |

PLATFORM MATRIX

Model code and resolution (0.1% of maximum load) by footprint and capacity.

| Footprint                       | 5 kg                                                                                 | 10 kg            | 20 kg            | 30 kg            | 50 kg            |
|---------------------------------|--------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|
| <b>Compact</b><br>210 × 150 mm  | MBS-C05<br>±5 g                                                                      | MBS-C10<br>±10 g | MBS-C20<br>±20 g | MBS-C30<br>±30 g | MBS-C50<br>±50 g |
| <b>Standard</b><br>300 × 200 mm | MBS-S05<br>±5 g                                                                      | MBS-S10<br>±10 g | MBS-S20<br>±20 g | MBS-S30<br>±30 g | MBS-S50<br>±50 g |
| <b>Large</b><br>420 × 260 mm    | MBS-L05<br>±5 g                                                                      | MBS-L10<br>±10 g | MBS-L20<br>±20 g | MBS-L30<br>±30 g | MBS-L50<br>±50 g |
| <b>Wide</b><br>600 × 230 mm     | MBS-W05<br>±5 g                                                                      | MBS-W10<br>±10 g | MBS-W20<br>±20 g | MBS-W30<br>±30 g | MBS-W50<br>±50 g |
| <b>Custom</b><br>Made to order  | Custom footprint and capacity — contact us with your bin dimensions and part weights |                  |                  |                  |                  |

SPECIFICATIONS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Scale</b><br>All models <ul style="list-style-type: none"><li>• Profile height: 18 mm</li><li>• Housing: glass-filled nylon, steel base</li><li>• LEDs: power, comms, parts detected</li><li>• Sample rate: 1 reading / second</li><li>• Connection: USB-C, daisy-chained</li><li>• Devices per portal: up to 127</li><li>• Power: 5 V via USB-C</li><li>• Ingress protection: IP54</li><li>• Operating temp: 0 – 50 °C</li><li>• Data output: web app</li><li>• Made in Australia</li></ul> | <b>Portal</b><br>MBS-PORTAL <ul style="list-style-type: none"><li>• Network interface — Ethernet and Wi-Fi</li><li>• Puts live counts on your network</li><li>• Powers and reads up to 127 scales</li><li>• USB-C to the first scale in the chain</li></ul> | <b>Display</b><br>MBS-DISPLAY <ul style="list-style-type: none"><li>• 10.1" touchscreen at the rack</li><li>• No separate Portal required</li><li>• Powers and reads up to 127 scales</li><li>• USB-C to the first scale in the chain</li></ul> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Every chain needs at least one Portal or Display.

CLOUD PORTAL

|                                                                                               |                                                                                                 |                                                                                                  |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Dashboard</b> — Total parts, containers, low-stock flags, offline scales, inventory value. | <b>Inventory</b> — Parts, containers and locations with live counts and percentage-full status. | <b>Alerts</b> — Below-min, empty, offline, rapid decrease, unexpected change, container removed. |
| <b>Trends</b> — Inventory over time, daily consumption, most-used parts, slow movers.         | <b>Consignment</b> — Supplier-owned stock, billing by period, PDF/CSV export.                   | <b>ERP</b> — REST API, webhooks, standard connectors, scheduled CSV export.                      |