

MCheck 2

Fast, accurate and reliable checkweighing



- Full washdown to IP69K
- Approved for process and end of line applications
- Speeds up to 245ppm subject to product size
- Continuous flow dynamic weighing provides accuracy down to 0.5g



Fast, accurate, reliable checkweighing

MCheck 2 combines high levels of accuracy with flexibility and capacity, making it the ideal choice for any food processing company – both in wet and dry production environments and end-of-line applications.

Whether you need a process weigher for monitoring and optimising the accuracy of the process equipment in your factory, or a checkweigher to ensure compliance with weight legislation, MCheck 2 will meet your requirements.

COMPLIANCE

MCheck 2 weighs and checks a wide variety of indexed packs or pieces in a continuous flow against predetermined limits. It prevents underweight and/or overweight packages and rejects 'out of spec' packs while ensuring compliance with weight legislation for sealed packs.

LINE OPTIMISATION

MCheck 2 can carry out weighing before and after a process for yield calculation and check the number of items in a package on the basis of weight. Trend regulation to reduce giveaway is achieved via feedback to other equipment in a system. The machine can also feed information forward to a dosing system to ensure accurate package weights.

FULL WASH DOWN HYGIENE

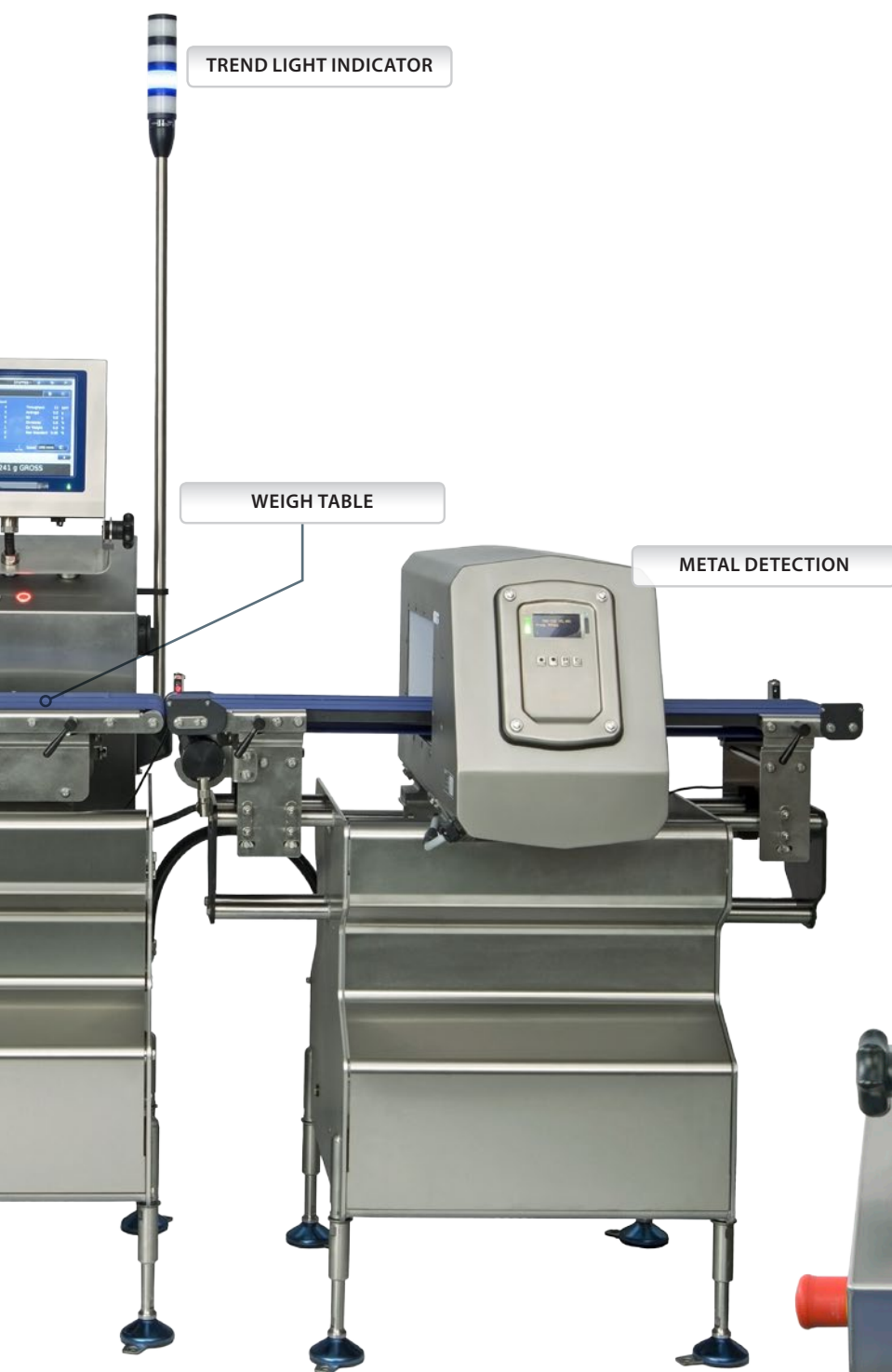
MCheck 2 can withstand intense high pressure and temperature wash down procedures to IP69K, thanks to its excellent, sturdy design. Quick release belts and swivel reject bins make for easy cleaning.

ACCURACY AND FOOD SAFETY

MCheck 2 features a range of metal detection and reject options which remove off weight and metal contaminated packs from the product flow. Single and twin reject confirmation, combined with lockable reject bins, ensures food safety and quality control.



for the food industry



Features and Benefits

- An optional trend light indicator provides a visual representation of average product weight over a specified number of packs or products.
- Optional single and multi-frequency metal detection ensures quality control on single and multi-product lines.
- A choice of single pusher, flipper, twin reverse flipper or drop flap reject with reject confirmation reliably removes off weight and metal contaminated products from the product flow.
- Fully approved remote access / display option.



MCheck 2 Modular Configuration

MCheck 2 is a modular checkweigher and can be configured to suit the weighing and reject requirements of your production. A number of standard configurations are shown below.



Weigh table and console

A choice of weigh tables to handle products up to 350mm width and 595mm length with a weight of up to 6000g is available.



Weigh table and console with infeed conveyor

Subject to weigh table size, infeed conveyors from 325 to 650mm length can be selected.



Weigh table and console with infeed conveyor and single reject

A choice of single flipper or pusher reject with open or lockable bins can be fitted.



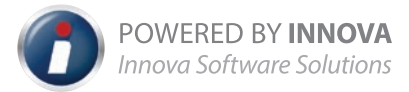
Weigh table and console with infeed conveyor and twin reject

A choice of twin flipper and pusher rejects with open or lockable bins to reject metal contaminated, on- and off-weight products is available.



Control and document your final product with Innova

MCheck 2 incorporates Marel's Innova Checkweighing module which provides real-time monitoring of key performance indicators and collection of data for statistical analysis, enabling processors to track operational performance and optimise production line efficiency.



Benefits

- Real-time monitoring allows for intervention in the event of performance deviation.
- Reports enable historical analysis of give-away results.
- Easy, fast and cost-effective implementation.
- Configures product parameters such as weight limits and batch sizes from a central location.
- Collects data from multiple checkweighers in a single database.
- Date and time for metal rejections makes it possible to pinpoint time of incident.
- Detailed reports enable monitoring and analysis of the process and produces legally required documentation.



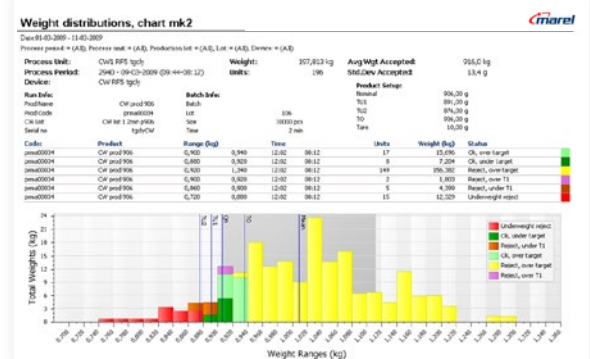
Stay in control with a real-time overview of machine performance.

Track overall equipment efficiency.

Overall Equipment Effectiveness																
Date: 25-11-2010 - 25-11-2010																
Process Unit	Times (H:M:S)			Totals		Good	Rejected	Waste	Throughput	Assembled	Portions	Quality	OEE			
	Planned	Operate	Downtime	Count	Weight	Count	Weight	Count	Weight	Units	g	%	%			
25-11-2010	Shift 1															
CW1 RPS	02:00:00	02:00:47	00:00:12	8,624	875,0	6,994	704,0	1,630	164,0	0	71,4 [95,6]	95,9 %	75,2 %	82,3 %	52,3 %	
CW1 RPS	02:00:00	02:00:47	00:00:12	8,624	875,0	6,994	704,0	1,630	164,0	0	0,0	71,4 [95,6]	95,9 %	75,2 %	82,3 %	52,3 %
25-11-2010	Shift 2															
CW1 RPS	00:00:00	00:02:01	00:00:29	3,228	323,0	1,990	191,0	228	22,0	0	97,8 [95,6]	92,8 %	100,0 %	82,1 %	70,4 %	
CW1 RPS	00:00:00	00:02:01	00:00:29	3,228	323,0	1,990	191,0	228	22,0	0	0,0	97,8 [95,6]	92,8 %	100,0 %	82,1 %	70,4 %
25-11-2010	Shift 3															
CW1 RPS	00:00:00	00:02:02	00:00:38	4,386	420,0	3,385	343,0	791	77,0	0	94,3 [95,6]	94,3 %	100,0 %	81,7 %	70,4 %	
CW1 RPS	00:00:00	00:02:02	00:00:38	4,386	420,0	3,385	343,0	791	77,0	0	0,0	94,3 [95,6]	94,3 %	100,0 %	81,7 %	70,4 %

E-weighing overview													
Date: 13-08-2009 - 13-08-2009													
Breakup processed period													
Process Unit:	CW1 RPS sim 2	Process Period:	3072	2009-09-10	11:02	-	11:04						
Batch Product:	Units	Accepts	Rejects	Average (kg)	Average (kg)	Tol. up (kg)	Tol. up (kg)	Accept	Accept	Reject	Reject	Reject	
1	100g	10	0	11	5,19	5,00	5,0	0,0	0,0	0,0	0,0	0,0	100,0%
Process Unit: <td>CW1 RPS sim 2</td> <td>Process Period: <td>3073</td> <td>2009-09-10 <td>11:04</td> <td>- <td>11:06</td> <td colspan="5"></td> </td></td></td>	CW1 RPS sim 2	Process Period: <td>3073</td> <td>2009-09-10 <td>11:04</td> <td>- <td>11:06</td> <td colspan="5"></td> </td></td>	3073	2009-09-10 <td>11:04</td> <td>- <td>11:06</td> <td colspan="5"></td> </td>	11:04	- <td>11:06</td> <td colspan="5"></td>	11:06						
Batch Product: <td>Units</td> <td>Accepts</td> <td>Rejects</td> <td>Average (kg) <td>Average (kg) <td>Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td></td></td></td>	Units	Accepts	Rejects	Average (kg) <td>Average (kg) <td>Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td></td></td>	Average (kg) <td>Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td></td>	Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td>	Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td>	Accept	Accept	Reject	Reject	Reject	
1	100g	190	0	190	5,00	5,00	5,0	0,0	0,0	0,0	0,0	100,0%	
Process Unit: <td>CW1 RPS sim 2</td> <td>Process Period: <td>3074</td> <td>2009-09-10 <td>11:06</td> <td>- <td>11:15</td> <td colspan="5"></td> </td></td></td>	CW1 RPS sim 2	Process Period: <td>3074</td> <td>2009-09-10 <td>11:06</td> <td>- <td>11:15</td> <td colspan="5"></td> </td></td>	3074	2009-09-10 <td>11:06</td> <td>- <td>11:15</td> <td colspan="5"></td> </td>	11:06	- <td>11:15</td> <td colspan="5"></td>	11:15						
Batch Product: <td>Units</td> <td>Accepts</td> <td>Rejects</td> <td>Average (kg) <td>Average (kg) <td>Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td></td></td></td>	Units	Accepts	Rejects	Average (kg) <td>Average (kg) <td>Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td></td></td>	Average (kg) <td>Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td></td>	Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td>	Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td>	Accept	Accept	Reject	Reject	Reject	
1	100g	294	294	18	5,10	5,10	25,7	24,4	94,2%	10,0%	0,0%	20,7%	
2	100g	294	292	47	5,10	5,10	25,7	25,4	92,0%	10,0%	0,0%	11,0%	
3	100g	200	200	34	5,10	5,10	20,0	20,0	100,0%	1,0%	0,0%	11,2%	
Process Unit: <td>CW1 RPS sim 2</td> <td>Process Period: <td>3075</td> <td>2009-09-10 <td>11:15</td> <td>- <td>13:10</td> <td colspan="5"></td> </td></td></td>	CW1 RPS sim 2	Process Period: <td>3075</td> <td>2009-09-10 <td>11:15</td> <td>- <td>13:10</td> <td colspan="5"></td> </td></td>	3075	2009-09-10 <td>11:15</td> <td>- <td>13:10</td> <td colspan="5"></td> </td>	11:15	- <td>13:10</td> <td colspan="5"></td>	13:10						
Batch Product: <td>Units</td> <td>Accepts</td> <td>Rejects</td> <td>Average (kg) <td>Average (kg) <td>Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td></td></td></td>	Units	Accepts	Rejects	Average (kg) <td>Average (kg) <td>Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td></td></td>	Average (kg) <td>Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td></td>	Tol. up (kg) <td>Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td> </td>	Tol. up (kg) <td>Accept</td> <td>Accept</td> <td>Reject</td> <td>Reject</td> <td>Reject</td>	Accept	Accept	Reject	Reject	Reject	
1	100g	292	249	47	5,10	5,10	25,7	25,1	96,0%	10,0%	0,0%	11,2%	
2	100g	294	280	38	5,10	5,10	25,4	24,9	96,0%	10,0%	0,0%	10,0%	
3	100g	294	242	38	5,10	5,10	25,8	24,5	94,2%	10,0%	0,0%	9,1%	

Ensure compliance with EU legislation with 'e' weighing reports.



Report on weight distribution.



Technical Information

Performance:

Throughput: up to 245packs/min
 Belt speed: up to 80m/min

Standard Weighing Configurations:

40g – 1000g by 0.5g
 80g – 3000g by 1g
 160g – 6000g by 2g
 Multi interval weighing available on request.

Automatic zero tracking

Measuring instrument directive 2004/22/EC

Pack Sizes:

	Length	Width	Height
Minimum:	50mm	50mm	10mm
Maximum:	595mm	350mm	150mm

Technical Information

Net Weight: 120kg

Power requirement:

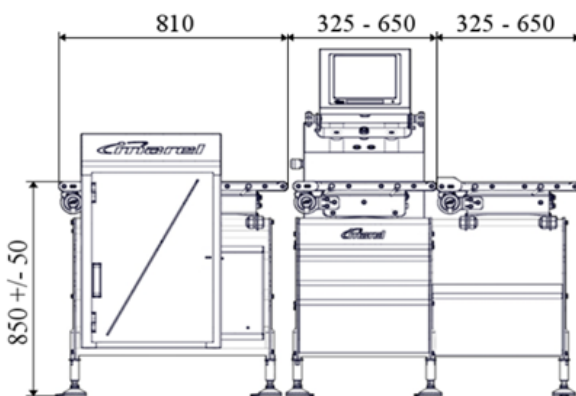
110/230V +/-10%, 50-60Hz,
 1 phase, 8A/4A

Environment:

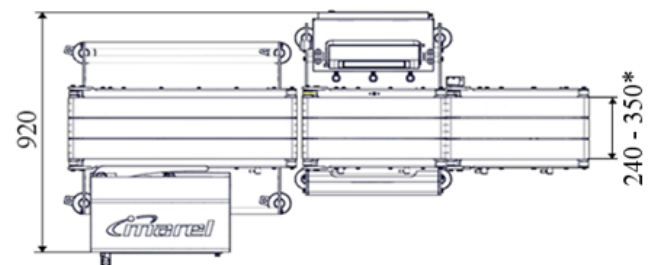
Temperature: 0–35°C
 Humidity: 40–60%°

Compressed Air:

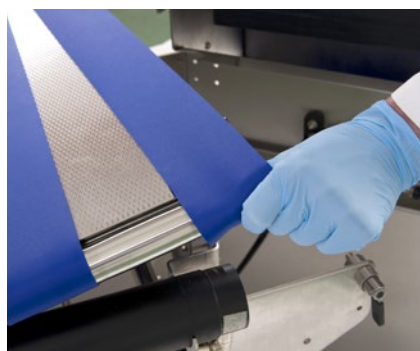
1.25l/min at 0.6MPa



Standard weigh table with infeed and single reject shown.



Easy access for cleaning and maintenance.



Quick release belts easily removed for cleaning.



Full washdown to IP69K.

Subject to change without notice / MCHCCK27 / NLG 01232 / 01/14

