

## Industrial scale Puro®

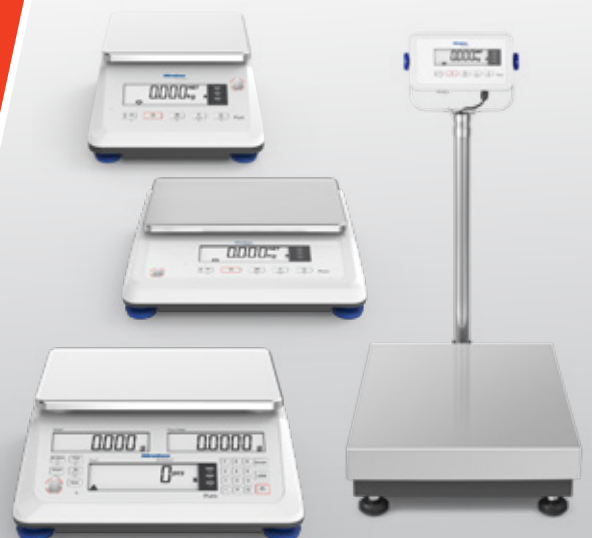
Weighing excellence now becomes affordable

**New!**



### Pure benefits for daily weighing

- High operational comfort
- Smart, sophisticated and affordable product portfolio
- Up to 500 hours battery operation time
- First industrial scale with standard charging via USB-C
- Cable-free usage



# Industrial scale Puro®

The Puro® series has been developed for your varying weighing needs. Whether weighing, counting or quality control – all the Puro® scales provide a fast and accurate weighing performance. With its robust design, innovative and user friendly applications, Puro® scales prove themselves in all areas of industrial weighing. They include a USB-C rechargeable battery with an extremely long operating time as well as smart connectivity options and application packages. Choose your Puro® from a wide selection of products and order your perfect weighing solution easily via the Puro® online store. Our global distribution centres guarantee quick and efficient delivery directly to your door. These innovative features make Puro® the true measure.

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## Compact scales

The Puro® compact scales range offers a wide choice to meet almost every requirement. Large, bright displays and a traffic light function ensure comfortable user operation.



## Weight indicator

Reliable and accurate weighing results in almost no time along with high operational comfort increase productivity and streamline work processes.



## Bench scales and floor scales

In order to be the first choice in any weighing situation, Puro® bench and floor scales are available in different dimensions, capacities, resolutions and materials.



## Bench platforms and floor platforms

The robust industrial design provides rugged solutions for a multitude of tasks along with accurate and reliable results within a second. Because of the model variety and the different construction materials the weighing platforms fit into any environment.





# The true measure

Minebea Intec is a leading manufacturer of industrial weighing and inspection technologies. We provide a wide, highly developed range of products, solutions and services to the industry for increasing the reliability, safety and efficiency of production and packaging lines.

Our ability to do this is based on the high quality of our products and services combined with around 150 years of experience and continuous investment in developing the relevant technology.

With a Minebea Intec product, customers can rely on services and solutions across the globe and throughout the product's entire life cycle – from assistance in selecting the right equipment to design-in or installation support, calibration, maintenance and repair services to conduct equipment upgrades and user training sessions.

Our key market position as a leading global provider of products and solutions and passion for setting high standards in all areas of business are reflected in our company motto "The true measure".

## Our products and solutions are wherever precision matters:



# I am Puro®

Puro® was developed on the principle of transferring our high-quality standards and leading technologies to a diverse and affordable range of industrial scales. The result is innovative weighing solutions that are intuitive to use and offer unique features to the market.

It is our aim to deliver the perfect industrial scale for every need, to every location and in the shortest possible time. An important function is thus already pre-installed in every Puro®: customer focus.



## Special characteristics

- Exceptional high operational comfort
- Smart, sophisticated and affordable product portfolio
- Up to 500 hours battery operation time.
- First industrial scale with standard charging via USB-C
- Worldwide delivery within only a few days



- Minebea Intec Sales - Service
- Minebea Intec Production - Sales - Service
- Distribution Partners (size refers to amount of Partners)
  - up to 5
  - up to 20
  - above 20

## The MinebeaMitsumi group





The MinebeaMitsumi group is a global precision electromechanical components manufacturer, providing products for various industries. Minebea was founded in 1951 in Japan, Mitsumi in 1954 and today has more than 78,000 employees as well as production and sales & service facilities in 16 countries around the globe. For many products, the MinebeaMitsumi group is No. 1 in terms of its global market share.



# How to select your Puro®

Puro® was specifically designed to help maximize productivity in a variety of industries and for a wide range of applications. You can choose your industrial scale according to your requirements.

Below you will find an overview of the product portfolio. If you have any questions, our distributors will be happy to help you.

	Compact scale small		Compact scale large	
	 SmallFlat	 SmallTall	 LargeFlat	 LargeTall
Displays				
Front	■	■	■	■
Front and Rear		■		■
Capacity				
1.5 kg	■	■	■	■
3 kg	■	■	■	■
6 kg	■	■	■	■
15 kg	■	■	■	■
30 kg	■	■	■	■
60 kg				
150 kg				
300 kg				
1,500 kg				
3,000 kg				
Resolution				
30,000 d	■	■	■	■
6,000 d	■	■	■	■
3,000 d				
Application package				
Basic	■	■	■	■
Advanced	■	■	■	■
Count Professional				
Indicator				



# « Large selection, great solution »



		Bench and floor scale	Indicator	Bench and floor platforms
	 Count			
	■	■	■	
	■			
	■			
	■			
	■			
	■	■		■
		■		■
		■		■
		■		■
		■		■
		■		■
	■		■	
	■	■		■
		■		■
	■			
		■	■	



# Compact scales Puro®

The Puro® compact scale range offers durable, compact and multi-functional weighing solutions. Large, bright displays, tactile keys, a traffic light function (Hi-Lo-Go) and an intuitive navigation make Puro® one of the most user-friendly scales to be used in any situation that requires industrial weighing. Multi-purpose scales and a special count scale are available to choose from.





## Special characteristics

- Wide range of scales for every purpose
- Large display and a traffic light function for high operational comfort
- Sturdy design for heavy usage
- Instant stabilisation
- Highly developed battery with exceptional operating time
- Easy charging via USB-C
- Smart connectivity and application packages
- One large count scale model including professional applications
- Built-in handle for easy and safe transport

## Applications



« From small and flat to large and tall everything is available »

Minebea  
intec



# Compact scale Puro® SmallFlat

The exceptionally user-friendly and flat compact scale for multi-purpose use

- Large, bright display and a traffic light function for easy and comfortable weighing
- Instant stabilisation
- Sturdy design for heavy use
- Highly developed battery with exceptional operating time
- Easy charging via USB-C



## Technical Specifications

Model	EF-SF-1/2-P1		EF-SF-1/2-P3		EF-SF-1/2-P6		EF-SF-1/2-P15		EF-SF-1/2-P30	
	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability
Resolution 30,000 d	1.5 kg	0.00005 kg	3 kg	0.0001 kg	6 kg	0.0002 kg	15 kg	0.0005 kg	30 kg	0.001 kg
	3 lb	0.0001 lb	6 lb	0.0002 lb	15 lb	0.0005 lb	30 lb	0.001 lb	60 lb	0.002 lb
	48 oz	0.002 oz	96 oz	0.005 oz	240 oz	0.01 oz	480 oz	0.02 oz	960 oz	0.05 oz
Resolution 6,000 d	1.5 kg	0.0002 kg	3 kg	0.0005 kg	6 kg	0.001 kg	15 kg	0.002 kg	30 kg	0.005 kg
	3 lb	0.0005 lb	6 lb	0.001 lb	15 lb	0.002 lb	30 lb	0.005 lb	60 lb	0.01 lb
	48 oz	0.01 oz	96 oz	0.02 oz	240 oz	0.05 oz	480 oz	0.1 oz	960 oz	0.2 oz
Application package										
Basic	Weighing, Totalizing									
Advanced	Weighing, Weighing in Percent, Counting, Check Weighing, Check Percentage, Check Counting, Averaging, Totalizing, Display Hold									



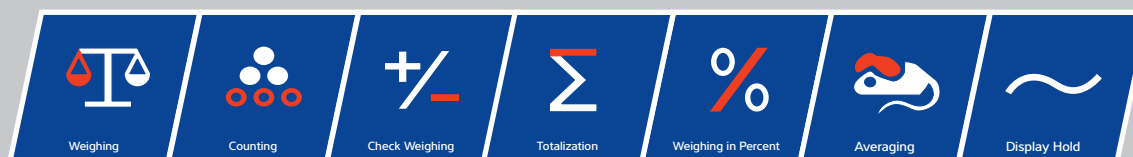
## Technical Specifications

Weighing units	kg, g, lb, oz, lb:oz
Construction/material	ABS housing/stainless steel 304 load plate
Ingress protection rating	IP43
Display	LCD display with white backlight, 1.4 in/35 mm height, 6 digits, 14-segment
Checkweighing indicators	3 LED (yellow, green, red) with configurable operation and alert beeper
Keypad	5 mechanical keys
Zero range	2% or 10% of full scale capacity
Tare range	Full capacity by subtraction
Stabilisation time	1 second
Auto-zero tracking	Off, 0.5, 1 or 3 divisions
Safe overload	150% of rated scale capacity
Leveling components	Externally visible level indicator and adjustable leveling feet
Power	100–240 V – 50/60 Hz AC adapter or internal rechargeable lithium battery
Battery operation time	Up to 500 hours continuous use between recharges with 12 hour recharge time
Calibration	External, with calibration weight
Interface	Built-in USB-C, USB-A
Operating temperature	-10 °C to 40 °C
Product dimension	246×302×107 mm (w×d×h)
Platform size	218×180 mm (w×l)
Compliance electro-magnetic compatibility	FCC Part 15 Class B, IEC 61326-1 (emissions Class B, immunity industrial requirements)

## Accessories

- Lithium battery pack
- Underfloor weighing hook
- Data printer

## Applications





# Compact scale Puro® SmallTall

The exceptionally user-friendly tall compact scale with two displays for versatile operations

- Large front and rear display and a traffic light function for easy, customer-oriented and comfortable weighing
- Instant stabilisation
- Sturdy design for heavy use
- Highly developed battery with exceptional operating time
- Easy charging via USB-C



## Technical Specifications

Model	EF-ST-1/2-P1		EF-ST-1/2-P3		EF-ST-1/2-P6		EF-ST-1/2-P15		EF-ST-1/2-P30	
	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability
Resolution 30,000 d	1.5 kg	0.00005 kg	3 kg	0.0001 kg	6 kg	0.0002 kg	15 kg	0.0005 kg	30 kg	0.001 kg
	3 lb	0.0001 lb	6 lb	0.0002 lb	15 lb	0.0005 lb	30 lb	0.001lb	60 lb	0.002 lb
	48 oz	0.002 oz	96 oz	0.005 oz	240 oz	0.01 oz	480 oz	0.02 oz	960 oz	0.05 oz
Resolution 6,000 d	1.5 kg	0.0002 kg	3 kg	0.0005 kg	6 kg	0.001 kg	15 kg	0.002 kg	30 kg	0.005 kg
	3 lb	0.0005 lb	6 lb	0.001 lb	15 lb	0.002 lb	30 lb	0.005 lb	60 lb	0.01 lb
	48 oz	0.01 oz	96 oz	0.02 oz	240 oz	0.05 oz	480 oz	0.1 oz	960 oz	0.2 oz
Application package										
Basic	Weighing, Totalizing									
Advanced	Weighing, Weighing in Percent, Counting, Check Weighing, Check Percentage, Check Counting, Averaging, Totalizing, Display Hold									



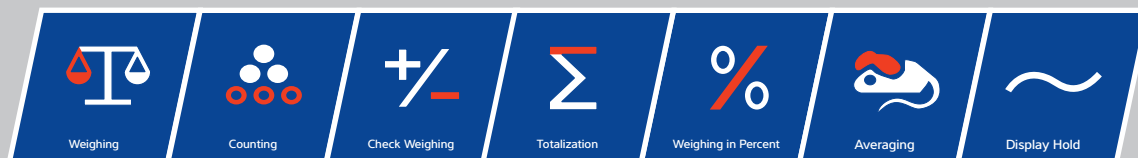
## Technical Specifications

Weighing units	kg, g, lb, oz, lb:oz
Construction/material	ABS housing/stainless steel 304 load plate
Ingress protection rating	IP43
Display	Front and rear LCD display with white backlight, 1.4 in/35 mm height, 6 digits, 14-segment
Checkweighing indicators	3 LED (yellow, green, red) with configurable operation and alert beeper
Keypad	5 mechanical keys
Zero range	2% or 10% of full scale capacity
Tare range	Full capacity by subtraction
Stabilisation time	1 second
Auto-zero tracking	Off, 0.5, 1 or 3 divisions
Safe overload	150% of rated scale capacity
Leveling components	Externally visible level indicator and adjustable leveling feet
Power	100–240 V – 50/60 Hz AC adapter or internal rechargeable lithium battery
Battery operation time	Up to 500 hours continuous use between recharges with 12 hour recharge time
Calibration	External, with calibration weight
Interface	Built-in USB-C, USB-A
Operating temperature	-10 °C to 40 °C
Product dimension	246×302×142 mm (w×d×h)
Platform size	218×180 mm (w×l)
Compliance electro-magnetic compatibility	FCC Part 15 Class B, IEC 61326-1 (emissions Class B, immunity industrial requirements)

## Accessories

- Lithium battery pack
- Underfloor weighing hook
- Data printer

## Applications

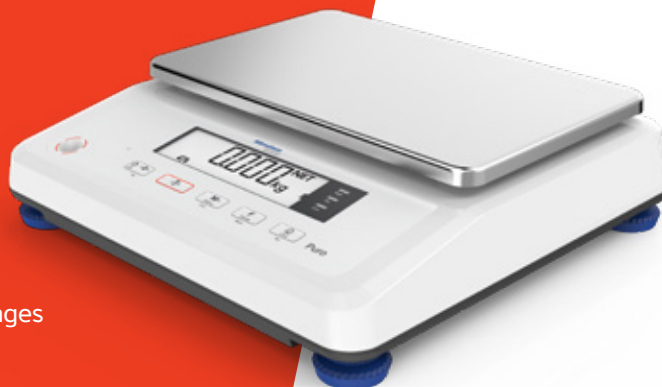




# Compact scale Puro<sup>®</sup> LargeFlat

**The exceptionally user-friendly flat compact scale with large weighing platform**

- Large , bright display and a traffic light function for easy and comfortable weighing
- Instant stabilisation
- Sturdy design for heavy use
- Highly developed battery with exceptional operating time
- Easy charging via USB-C
- Smart connectivity and application packages



## Technical Specifications

Model	EF-LF-1/2-P1		EF-LF-1/2-P3		EF-LF-1/2-P6		EF-LF-1/2-P15		EF-LF-1/2-P30	
	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability
Resolution 30,000 d	1.5 kg	0.00005 kg	3 kg	0.0001 kg	6 kg	0.0002 kg	15 kg	0.0005 kg	30 kg	0.001 kg
	3 lb	0.0001 lb	6 lb	0.0002 lb	15 lb	0.0005 lb	30 lb	0.001lb	60 lb	0.002 lb
	48 oz	0.002 oz	96 oz	0.005 oz	240 oz	0.01 oz	480 oz	0.02 oz	960 oz	0.05 oz
Resolution 6,000 d	1.5 kg	0.0002 kg	3 kg	0.0005 kg	6 kg	0.001 kg	15 kg	0.002 kg	30 kg	0.005 kg
	3 lb	0.0005 lb	6 lb	0.001 lb	15 lb	0.002 lb	30 lb	0.005 lb	60 lb	0.01 lb
	48 oz	0.01 oz	96 oz	0.02 oz	240 oz	0.05 oz	480 oz	0.1 oz	960 oz	0.2 oz
Application package										
Basic	Weighing, Totalizing									
Advanced	Weighing, Weighing in Percent, Counting, Check Weighing, Check Percentage, Check Counting, Averaging, Totalizing, Display Hold									





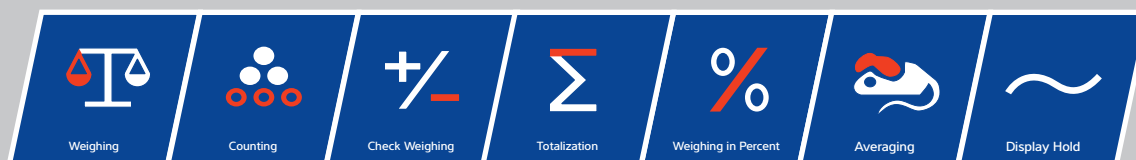
## Technical Specifications

Weighing units	kg, g, lb, oz, lb:oz
Construction/material	ABS housing/stainless steel 304 load plate
Ingress protection rating	IP43
Display	LCD display with white backlight, 1.4 in/35 mm height, 6 digits, 14-segment
Checkweighing indicators	3 LED (yellow, green, red) with configurable operation and alert beeper
Keypad	5 mechanical keys
Zero range	2% or 10% of full scale capacity
Tare range	Full capacity by subtraction
Stabilisation time	1 second
Auto-zero tracking	Off, 0.5, 1 or 3 divisions
Safe overload	150% of rated scale capacity
Leveling components	Externally visible level indicator and adjustable leveling feet
Power	100–240 V – 50/60 Hz AC adapter or internal rechargeable lithium battery
Battery operation time	Up to 500 hours continuous use between recharges with 12 hour recharge time
Calibration	External, with calibration weight
Interface	Built-in USB-C, USB-A, RS232
Operating temperature	-10 °C to 40 °C
Product dimension	310×302×85 mm (w×d×h)
Platform size	280×180 mm (w×l)
Compliance electro-magnetic compatibility	FCC Part 15 Class B, IEC 61326-1 (emissions Class B, immunity industrial requirements)

## Accessories

- Lithium battery pack
- Underfloor weighing hook
- Data printer

## Applications





# Compact scale Puro® LargeTall

**The exceptionally user-friendly tall compact scale with large weighing platform and two displays**

- Large, bright front and rear display and a traffic light function for easy, customer-oriented and comfortable weighing
- Instant stabilisation
- Sturdy design for heavy use
- Highly developed battery with exceptional operating time
- Easy charging via USB-C
- Smart connectivity and flexible options



## Technical Specifications

Model	EF-LT-1/2-P1		EF-LT-1/2-P3		EF-LT-1/2-P6		EF-LT-1/2-P15		EF-LT-1/2-P30	
	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability
Resolution 30,000 d	1.5 kg	0.00005 kg	3 kg	0.0001 kg	6 kg	0.0002 kg	15 kg	0.0005 kg	30 kg	0.001 kg
	3 lb	0.0001 lb	6 lb	0.0002 lb	15 lb	0.0005 lb	30 lb	0.001 lb	60 lb	0.002 lb
	48 oz	0.002 oz	96 oz	0.005 oz	240 oz	0.01 oz	480 oz	0.02 oz	960 oz	0.05 oz
Resolution 6,000 d	1.5 kg	0.0002 kg	3 kg	0.0005 kg	6 kg	0.001 kg	15 kg	0.002 kg	30 kg	0.005 kg
	3 lb	0.0005 lb	6 lb	0.001 lb	15 lb	0.002 lb	30 lb	0.005 lb	60 lb	0.01 lb
	48 oz	0.01 oz	96 oz	0.02 oz	240 oz	0.05 oz	480 oz	0.1 oz	960 oz	0.2 oz
Application package										
Basic	Weighing, Totalizing									
Advanced	Weighing, Weighing in Percent, Counting, Check Weighing, Check Percentage, Check Counting, Averaging, Totalizing, Display Hold									



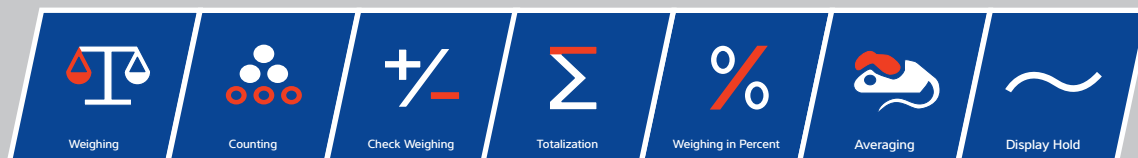
## Technical Specifications

Weighing units	kg, g, lb, oz, lb:oz
Construction/material	ABS housing/stainless steel 304 load plate
Ingress protection rating	IP43
Display	Front and rear LCD display with white backlight, 1.4 in/35 mm height, 6 digits, 14-segment
Checkweighing indicators	3 LED (yellow, green, red) with configurable operation and alert beeper
Keypad	5 mechanical keys
Zero range	2% or 10% of full scale capacity
Tare range	Full capacity by subtraction
Stabilisation time	1 second
Auto-zero tracking	Off, 0.5, 1 or 3 divisions
Safe overload	150% of rated scale capacity
Leveling components	Externally visible level indicator and adjustable leveling feet
Power	100–240 V – 50/60 Hz AC adapter or internal rechargeable lithium battery
Battery operation time	Up to 500 hours continuous use between recharges with 12 hour recharge time
Calibration	External, with calibration weight
Interface	Built-in USB-C, USB-A, RS232
Operating temperature	-10 °C to 40 °C
Product dimension	310×302×118 mm (w×d×h)
Platform size	280×180 mm (w×l)
Compliance electro-magnetic compatibility	FCC Part 15 Class B, IEC 61326-1 (emissions Class B, immunity industrial requirements)

## Accessories

- Lithium battery pack
- Underfloor weighing hook
- Data printer

## Applications





# Compact scale Puro<sup>®</sup> Count

The exceptionally user-friendly compact scale with innovative features for efficient counting

- 3 large, bright front displays and a traffic light function for easy, transparent weighing and counting
- Instant stabilisation
- Sturdy design for heavy use
- Highly developed battery with exceptional operating time
- Easy charging via USB-C
- Smart connectivity and flexible options



## Technical Specifications

Model	EF-LT-3-P1		EF-LT-3-P3		EF-LT-3-P6		EF-LT-3-P15		EF-LT-3-P30	
	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability
Resolution 30,000 d	1.5 kg	0,00005 kg	3 kg	0.0001 kg	6 kg	0.0002 kg	15 kg	0.0005 kg	30 kg	0.001 kg
	3 lb	0,0001 lb	6 lb	0.0002 lb	15 lb	0.0005 lb	30 lb	0.001 lb	60 lb	0.002 lb
	48 oz	0,002 oz	96 oz	0.005 oz	240 oz	0.01 oz	480 oz	0.02 oz	960 oz	0.05 oz
Resolution 6,000 d	1.5 kg	0,0002 kg	3 kg	0.0005 kg	6 kg	0.001 kg	15 kg	0.002 kg	30 kg	0.005 kg
	3 lb	0,0005 lb	6 lb	0.001 lb	15 lb	0.002 lb	30 lb	0.005 lb	60 lb	0.01 lb
	48 oz	0,01 oz	96 oz	0.02 oz	240 oz	0.05 oz	480 oz	0.1 oz	960 oz	0.2 oz
Min. recommended sample weight	1 g		2 g		4 g		10 g		20 g	
	0.002 lb		0.005 lb		0.009 lb		0.02 lb		0.005 lb	
	0.04 oz		0.07 g		0.14 oz		0.4 oz		0.7 oz	
Min. recommended APW	0.005 g		0.01 g		0.02 g		0.05 g		0.1g	
	0.00001 lb		0.00002 lb		0.00004 lb		0.0001 lb		0.0002 lb	
	0.0002 oz		0.0004 oz		0.0007 oz		0.002 oz		0.004 oz	
Max. internal counting resolution	1:1,500,000 Internal/1:300,000 External									
Application package										
Count Professional	Weighing, Count (with APW Optimization and low APW alert), Check Weighing, Check Counting, Totalizing									



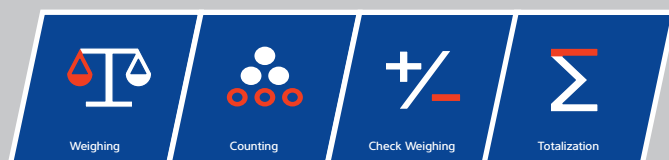
## Technical Specifications

Weighing units	kg, g, lb, oz, lb:oz
Construction/material	ABS housing/stainless steel 304 load plate
Ingress protection rating	IP43
Display	3 windows LCD display with white backlight, 6 digits, 14-segment, up to 1.4 in/35 mm height
Checkweighing indicators	3 LED (yellow, green, red) with configurable operation and alert beeper
Memory	30 item library
Keypad	10 functions, 10 numeric mechanical keys
Zero range	2 % or 10 % of full scale capacity
Tare range	Full capacity by subtraction
Stabilisation time	1 second
Auto-zero tracking	Off, 0.5, 1 or 3 divisions
Safe overload	150% of rated scale capacity
Leveling components	Externally visible level indicator and adjustable leveling feet
Power	100–240 V – 50/60 Hz AC adapter or internal rechargeable lithium battery
Battery operation time	Up to 500 hours continuous use between recharges with 12 hour recharge time
Calibration	External, with calibration weight
Interface	Built-in USB-C, USB-A, RS232
Operating temperature	-10 °C to 40 °C
Product dimension	310×302×118 mm (w×d×h)
Platform size	280×180 mm (w×l)
Compliance electro-magnetic compatibility	FCC Part 15 Class B, IEC 61326-1 (emissions Class B, immunity industrial requirements)

## Accessories

- Lithium battery pack
- 2nd platform kit
- Underfloor weighing hook
- Data printer
- Barcode scanner

## Applications





# Bench and floor scales Puro®

The Puro® bench scales and floor scales are multi-functional weighing solutions for diverse industrial weighing needs. The scales unite the most needed applications in one multi-purpose indicator with large display for a comfortable user operating experience along with accurate and reliable results in a second. Combined with the robustness and durability of the platforms, the scales fit comfortably in any environment.





## Special characteristics

- Industrial proven robust square tube design
- Large display and a traffic light function for easy and comfortable weighing
- Instant stabilisation
- Highly developed battery with exceptional operating time
- Easy charging via USB-C
- Large, non-slip levelling feet

## Applications



« Pure  
innovations  
for industrial  
weighing »

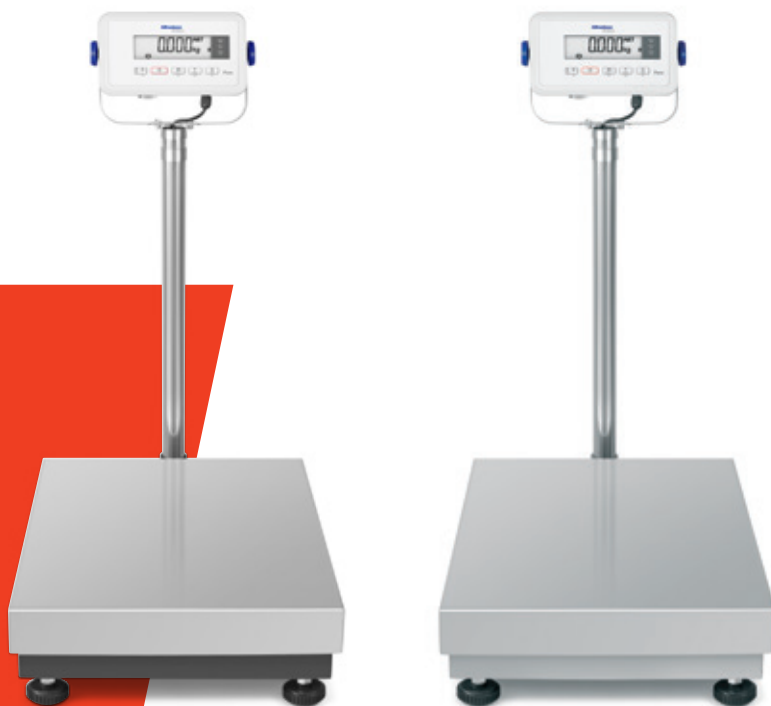
Minebea  
intec



# Bench scale Puro®

## The exceptionally user-friendly bench scale with robust industrial design

- Industrial proven massive square tube design
- Large display and a traffic light function for easy and comfortable weighing
- Instant stabilisation
- Highly developed battery with exceptional operating time
- Large, non-slip levelling feet



## Technical Specifications

Model	EF-4P-DD-P/S-30		EF-4P-DD/FE-P/S-60		EF-4P-FE/GF-P/S-150		EF-4P-GF-P/S-300	
	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability
Resolution 6,000 d	30 kg	0.005 kg	60 kg	0.01 kg	150 kg	0.02 kg	300 kg	0.05 kg
	66 lb	0.01 lb	132 lb	0.02 lb	330 lb	0.05 lb	660 lb	0.1lb
	1056 oz	0.2 oz	2112 oz	0.5 oz	5280 oz	1 oz	10576 oz	2 oz
Dimension	DD 350×300×104 mm							
	FE 550×420×114 mm							
	GF 650×500×114 mm							
Material weight indicator	P ABS housing							
Material weighing platform	P Painted carbon steel, 304 stainless steel load plate							
	S All 304 stainless steel structure							
Application package								
Indicator	Weighing, Counting, Check Weighing, Check Counting, Totalizing							

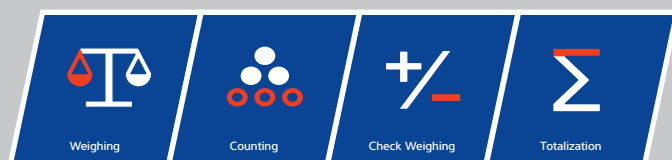
## Technical Specifications

<b>Indicator</b>	
Weighing units	kg, g, lb, oz, lb:oz
Ingress protection rating	IP43
Display	LCD display with white backlight, 1.4 in/35 mm height, 6 digits, 14-segment
Checkweighing indicators	3 LED (yellow, green, red) with configurable operation and alert beeper
Keypad	5 mechanical keys
Zero range	2% or 10% of full scale capacity
Tare range	Full capacity by subtraction
Stabilisation time	1 second
Auto-zero tracking	Off, 0.5, 1 or 3 divisions
Power	100–240 V – 50/60 Hz AC adapter or internal rechargeable lithium battery
Battery operation time	Up to 500 hours operation time between recharges with 12 hour recharge time
Calibration	External, with calibration weight
Interface	Built-in USB-C, USB-A, RS232
Operating temperature	-10°C to 40°C
Product dimension mm	230×128×57 mm (w×d×h)
<b>Platform</b>	
Operating temperature	-10°C to 40°C
Safe overload	150% of rated scale capacity
Levelling components	Externally visible level indicator and adjustable leveling feet
Compliance electromagnetic compatibility	FCC Part 15 Class B, IEC 61326-1 (emissions Class B, immunity industrial requirements)

## Accessories

- Lithium battery pack
- Data printer

## Applications

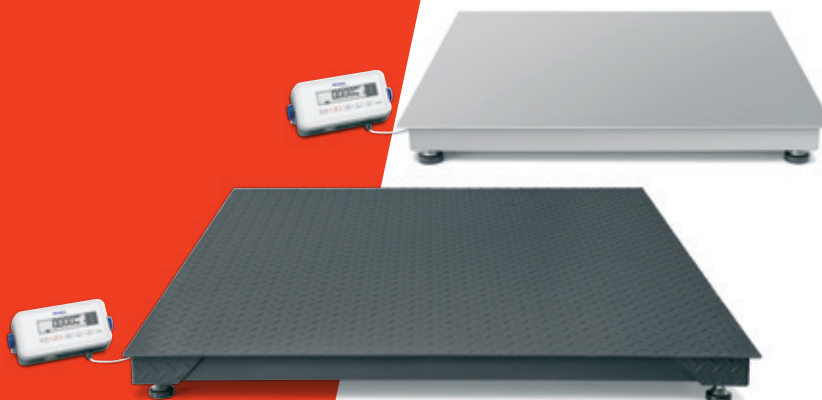




# Floor scale Puro®

## The exceptionally user-friendly floor scale with robust industrial design

- Large, bright display for easy and comfortable weighing
- Instant stabilisation
- Highly developed battery with exceptional operating time
- Easy charging via USB-C



## Technical Specifications

Model	EF-4P-LL/NN/RR-P/S-1500		EF-4P-NN/RR-P/S-3000	
	Capacity	Readability	Capacity	Readability
Resolution 3,000 d	1,500 kg	0.5 kg	3,000 kg	1 kg
	3,000 lb	1 lb	6,000 lb	2 lb
Dimension	LL 1,000×1,000×100 mm			
	NN 1,250×1,250×100 mm			
	RR 1,500×1,500×100 mm			
Material weight indicator	P ABS housing			
Material weighing platform	P Painted carbon steel, Painted carbon steel with checker plate			
	S All 304 stainless steel structure			
Application package				
Indicator	Weighing, Counting, Check Weighing, Check Counting, Totalizing			

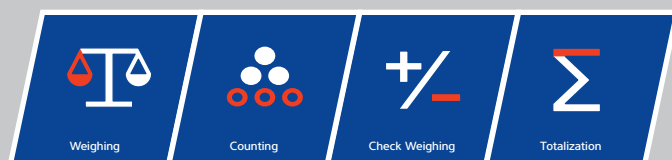
## Technical Specifications

<b>Indicator</b>	
Weighing units	kg, g, lb, oz, lb:oz
Ingress protection rating	IP43
Display	LCD display with white backlight, 1.4 in/35 mm height, 6 digits, 14-segment
Keypad	5 mechanical keys
Zero range	2 % or 10 % of full scale capacity
Tare range	Full capacity by subtraction
Stabilisation time	1 second
Auto-zero tracking	Off, 0.5, 1 or 3 divisions
Power	100 – 240 V – 50/60 Hz AC adapter or internal rechargeable lithium battery
Battery operation time	Up to 500 hours operation time (with standard battery) between recharges with 12 hour recharge time
Calibration	External, with calibration weight
Interface	Built-in USB-C, USB-A, RS232, optional Bluetooth or WIFI
Operating temperature	-10°C to 40°C
Product dimension mm (w x d x h)	230×128×59.5 mm (w×d×h)
<b>Platform</b>	
Operating temperature	-10°C to 40°C
Safe overload	150% of rated scale capacity
Levelling components	Externally visible level indicator and adjustable leveling feet
Compliance electromagnetic compatibility	FCC Part 15 Class B, IEC 61326-1 (emissions Class B, immunity Industrial requirements)

## Accessories

- Lithium battery pack
- Data printer

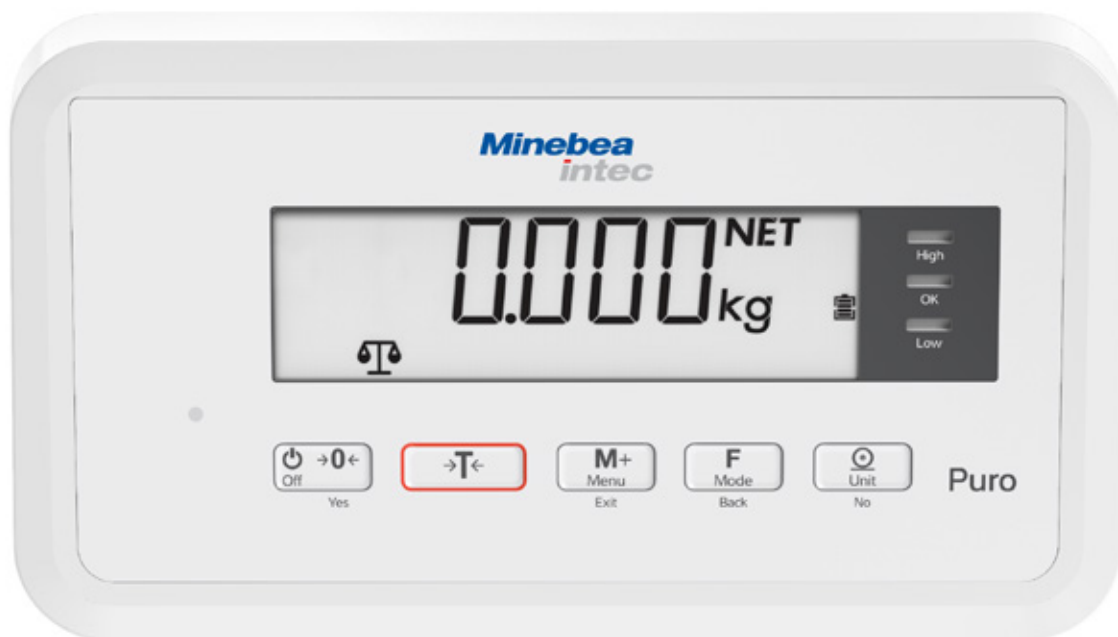
## Applications





# Weight indicator Puro<sup>®</sup>

The Puro<sup>®</sup> weight indicator is suitable for a wide variety of industrial weighing tasks. A large, bright display, a traffic light function and five tactile keys ensure convenient operation of the powerful applications. User-friendliness is combined with simple charging and connection technology. The rechargeable lithium-ion battery is easy to change and provides operating time for up to 500 hours.





## Special characteristics

- Large display and a traffic light function for easy and comfortable weighing
- Instant stabilisation
- Highly developed battery with exceptional operating time
- Easy charging via USB-C

## Applications



Minebea  
Intec

All you need  
is USB-C



# Weight indicator Puro®

## Exceptionally user-friendly weight indicator with powerful applications for versatile operations

- Large , bright display and a traffic light function for easy and comfortable weighing
- Instant stabilisation
- Highly developed battery with exceptional operating time
- Easy charging via USB-C



## Technical Specifications

Model	EF-IN4P
Full Scale Capacity Range	5 to 20,000 lb or kg
Displayed Resolution	1:30,000 max
Application package	
Indicator	Weighing, Counting, Check Weighing, Check Counting, Totalizing



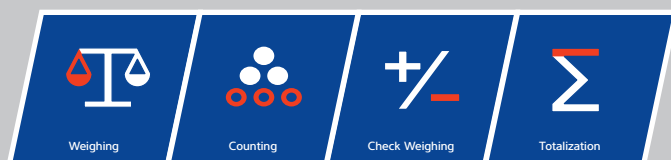
## Technical Specifications

Weighing units	kg, g, lb, oz, lb:oz
Construction/material	ABS plastic housing
Ingress protection rating	IP43
Display	LCD display with white backlight, 1.4 in/35 mm height, 6 digits, 14-segment
Keypad	5 mechanical keys
Zero range	2% or 10% of full scale capacity
Tare range	Full capacity by subtraction
Stabilisation time	1 second
Auto-zero tracking	Off, 0.5, 1 or 3 divisions
Load cell excitation/ input sensitivity	5 V DC/up to 3 mV/V (min 1 $\mu$ V/d)
Load cell drive	Up to four 350 $\Omega$ load cells
Power	100 – 240 V – 50/60 Hz AC adapter or internal rechargeable lithium battery
Battery operation time	Up to 500 hours continuous use between recharges with 12 hour recharge time
Calibration	External, with calibration weight
Interface	Built-in USB-C, USB-A, RS232
Operating temperature	-10 °C to 40 °C
Product dimension	230 × 128 × 59.5 mm (w × d × h)
Compliance electro- magnetic compatibility	FCC Part 15 Class B, IEC 61326-1 (emissions Class B, immunity industrial requirements)

## Accessories

- Lithium battery pack
- Data printer

## Applications





# Bench and floor platforms Puro®

The Puro® platforms are suitable for diverse industrial weighing needs. The robust industrial design provides rugged solutions for a multitude of tasks along with accurate and reliable results within a second. Due to the model variety and the different construction materials the weighing platforms fit into any environment. Puro® meets all requirements and offers the ideal combination of quality, reliability and value.



## Special characteristics

- Industrial proven massive square tube design
- Precise and reliable weighing results
- Large, non-slip levelling feet
- Painted mild steel platform with checker plate
- 304 stainless steel platform for washdown environments

## Applications



« Weighing  
excellence  
in every  
detail »





# Bench platform Puro®

## Durable bench platforms for accurate and reliable weighing results

- Industrial proven massive square tube design
- Precise and reliable weighing results
- Large, non-slip levelling feet
- Available in painted or stainless steel

## Technical Specifications

Model	EF-DD-P/S-30		EF-DD/FE-P/S-60		EF-FE/GF-P/S-150		EF-GF-P/S-300	
	Capacity	Readability	Capacity	Readability	Capacity	Readability	Capacity	Readability
Resolution 6,000 d	30 kg	0.005 kg	60 kg	0.01 kg	150 kg	0.02 kg	300 kg	0.05 kg
	66 lb	0.01 lb	132 lb	0.02 lb	330 lb	0.05 lb	660 lb	0.1lb
	1,056 oz	0.2 oz	2,112 oz	0.5 oz	5,280 oz	1 oz	10,576 oz	2 oz
Dimension	DD 350×300 mm							
	FE 550×420 mm							
	GF 650×500 mm							
Material weighing platform	P Painted carbon steel, 304 stainless steel load plate							
	S All 304 stainless steel structure							





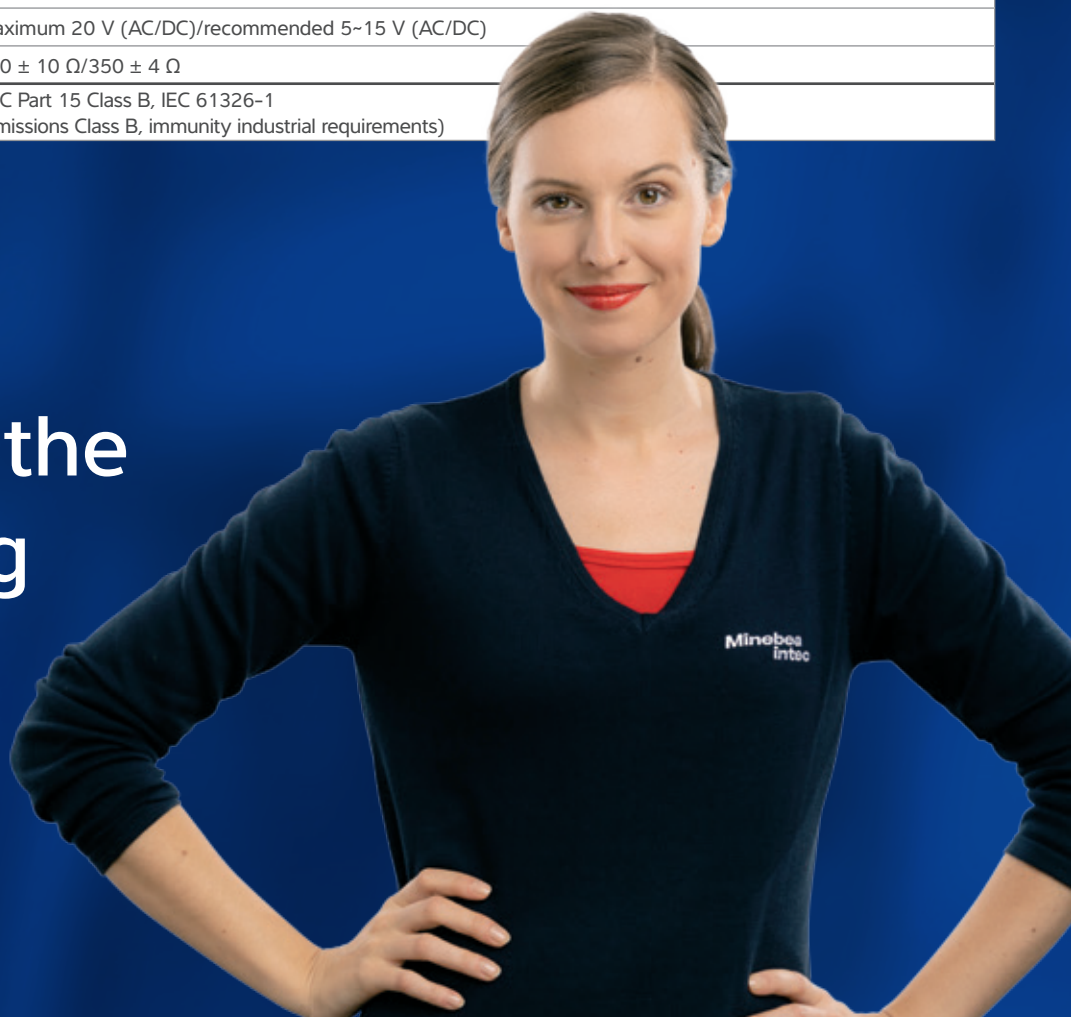
## Technical Specifications

<b>Platform</b>	
Operating temperature	-10°C to 40°C
Safe overload	125 % of rated scale capacity
Levelling components	Externally visible level indicator and adjustable leveling feet
Load cell protection/class	IP67/OIML C3
Load cell cable length	0.4 m
Load cell rated output	2 mV/V ± 10%
Load cell excitation voltage	Maximum 20 V (AC/DC)/recommended 5-15 V (AC/DC)
Load cell input/output resistance	410 ± 10 Ω/350 ± 4 Ω
Compliance electromagnetic compatibility	FCC Part 15 Class B, IEC 61326-1 (emissions Class B, immunity industrial requirements)

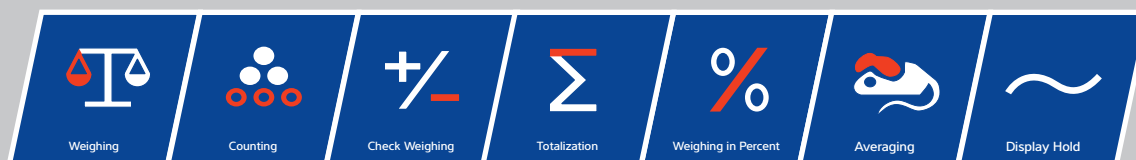
## Accessories

- Column

« Puro<sup>®</sup> is the  
weighing  
solution  
of the  
future »



## Applications





# Floor platform Puro<sup>®</sup>

## Durable floor platforms for accurate and reliable weighing results

- Precise and reliable weighing results
- Robust industrial design
- Available in painted or stainless steel
- Painted platforms with checker plate

### Technical Specifications

Model	EF-LL/NN/RR-P/S-1500		EF-NN/RR-P/S-3000	
	Capacity	Readability	Capacity	Readability
Resolution 3,000 d	1,500 kg	0.5 kg	3,000 kg	1 kg
	3,000 lb	1 lb	6,000 lb	2 lb
Dimension	LL 1,000 × 1,000 mm			
	NN 1,250 × 1,250 mm			
	RR 1,500 × 1,500 mm			
Material weighing platform	P Painted carbon steel with checker plate			
	S All 304 stainless steel structure			



## Technical Specifications

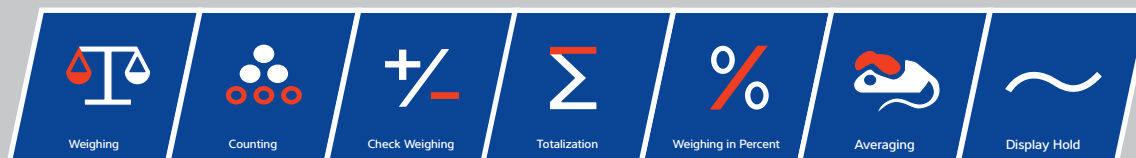
<b>Platform</b>	
Operating temperature	-10°C to 40°C
Safe overload	150% of rated scale capacity
Levelling components	Externally visible level indicator and adjustable leveling feet
Load cell protection/class	IP67/OIML C3
Load cell cable length	0.4 m
Load cell rated output	2 mV/V ± 10%
Load cell excitation voltage	Maximum 20V (AC/DC)/recommended 5~15V (AC/DC)
Load cell input/output resistance	410 ± 10 Ω/350 ± 4 Ω
Compliance electromagnetic compatibility	FCC Part 15 Class B, IEC 61326-1 (emissions Class B, immunity industrial requirements)

## Accessories

- Pit frame
- Ramp
- Column



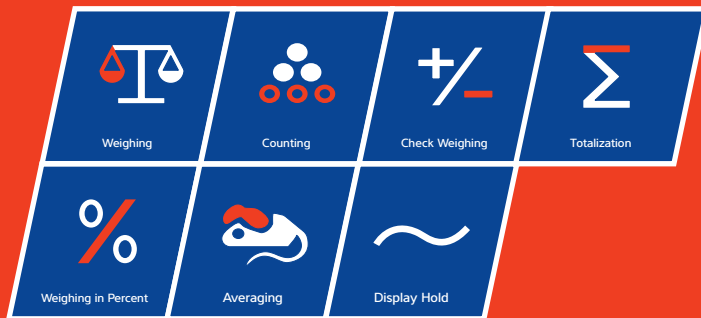
## Applications





# Application Overview

## Applications



### Weighing

Display the weight of the sample in lb, oz, lb:oz, kg or g

### Automatic Tare

The first gross weight is automatically tared

### Weighing in Percent

Display the weight in percent of the reference weight

### Counting

Counting items based on the weight of a reference sample

### Check Weighing

Compare the weight of items to a targeted weight

### Check Percentage

Compare the percentage of items to a targeted value

### Check Count

Compare the quantity of items to a targeted quantity

### Totalization

Adding up values from consecutive, independent weight values to a total value

### Averaging

Weight determination for unstable samples (e.g. living animals) or under unsteady environmental conditions

### Display Hold

Capture the first stable weight value. This value will stay on the display even after removing the sample



Product	SmallFlat, SmallTall, LargeFlat, LargeTall		Count	Indicator, bench and floor scales
	Basic	Advanced	Count Professional	Indicator
Application level				
<b>Weighing</b>	■	■	■	■
<b>Automatic Tare</b>	■	■	■	■
<b>Weighing in Percent</b>		■		
<b>Counting</b>		■	■	■
<b>Check Weighing</b>		■	■	■
<b>Check Percentage</b>		■		
<b>Check Counting</b>		■	■	■
<b>Totalization</b>	■	■	■	■
<b>Averaging</b>		■		
<b>Display Hold</b>		■		

« Puro<sup>®</sup> is designed to meet a variety of applications »







# Order Information

The wide range of options makes every Puro® an individually tailor-made weighing solution. Furthermore the selection today is only a small part of tomorrow's possibilities. Puro® is designated to be constantly continued. If you have any questions or suggestions, please do not hesitate to contact us.

## Puro® SmallFlat / LargeFlat / SmallTall / LargeTall / Count

Example: EF-LT1P30-30d-2D



## Puro® Bench and Floor Scales

Example: EF-4PDDP60-6d



## Puro® Platforms

Example: EF-DDS60-6d



## Puro® Indicator

Example: EF-IN4P





**Puro® Store**

[www.puroscales.com](http://www.puroscales.com)



« Order your  
Puro® ...now! »



Minebea  
Intec



# Everything from a single source

Minebea Intec provides products, solutions and services to the industry for increasing the reliability, safety and efficiency of production and packaging lines. Our portfolio covers applications from goods-in to goods-out, including automated as well as manual processes and filling and packaging.

## Process Weighing and Automation

- Vessel and Silo Scales
- Truck Scale Components
- Bench and Floor Scales
- Batching and Formulation



## Quality Assurance

- Checkweighers
- Metal Detectors
- X-Ray Inspection Systems
- Statistical Process Control



## Services

- Engineering Support
- Start-up
- Maintenance and Repair
- Upgrades
- Training



Puro® Store

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*The true measure*

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