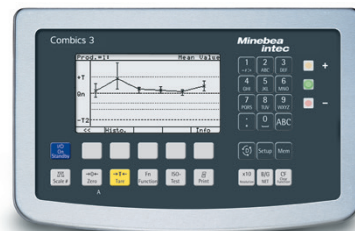


## Combics® SPC

Compact solution for fill quantity control and European Pharmacopoeia



The hygienic Combics SPC single-workstation solution can be used to perform spot checks for packaged goods and fill quantities. The results of the spot check assessment can be used to optimise filling quantities and statutory evidence regarding the accuracies/requirements that have been complied with can be conveniently provided.

# The true measure

Minebea Intec is a leading manufacturer of industrial weighing and inspection technologies. Our mission is to increase the reliability, safety and efficiency of our customers' production processes. To do this, we provide high-quality products, solutions and services that ensure a high level of safety.

Minebea Intec's excellent performance is based on 150 years of experience, our distinct German Quality and continuous investments in the development of innovative technologies. Our strong global presence and an extensive network of distribution partners ensure that our customers can rely on top Minebea Intec quality – any time, anywhere. Our goal is to set strong standards in all areas of our company, which is reflected in our brand slogan, 'the true measure'.

By purchasing Minebea Intec products, every day, customers all over the world are choosing more than just innovative technologies: they are also choosing top-quality service performance and comprehensive support throughout the entire life cycle of their product. Our aim is to fulfil our customers' requirements no matter what the industry, and to be the first port of call for weighing and inspection technologies. In short: the best expert you could have!

## Products and solutions from Minebea Intec are a staple in many sectors





- 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 manufacturer of high-accuracy electromechanical components for a number of industrial sectors. Minebea was founded in Japan in 1951 and Mitsumi in 1954. The company currently employs around 80,000 people and has more than 120 production sites and sales and service locations around the world. The MinebeaMitsumi group is a world leader in terms of market share for a wide range of products.

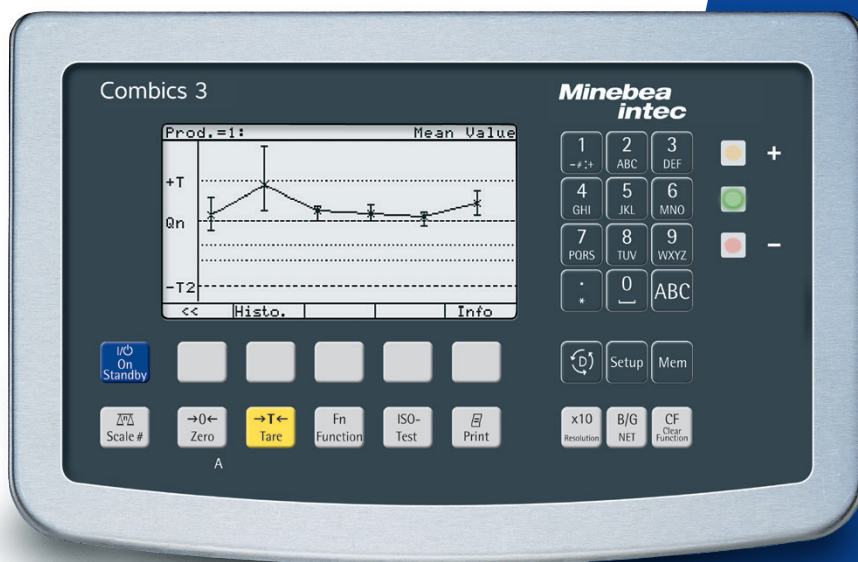
# Combics® SPC – Fill quantity control made easy

To help you achieve the best possible results, first-class weighing technology needs to be combined with outstanding software. The Combics® SPC combines all the proven product features of the Combics 3 series from Minebea Intec with our SPC software. We have consistently optimised the two technologies and, in the Combics® SPC, we have combined them into one product that can be used for high-precision check weighing, e.g. as part of operational fill quantity control.

Combics® SPC is the single-workstation system for fill quantity control. We have added a considerable package of new product features to the previous system's full range of applications and functions. The result is Combics® SPC – the perfect solution for a wide range of different industrial applications. Combics® SPC is the ideal solution for all processes with the highest accuracy standards, e.g. reliability and an outstanding price/performance ratio.

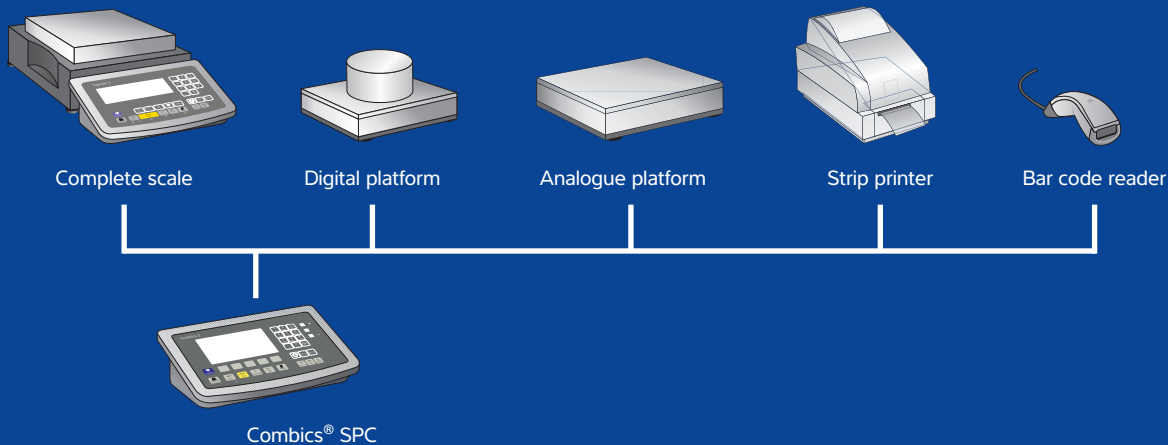
The Combics 3 user interface is ideally suited for controlling the SPC software's numerous applications. The operator can choose from various weighing ranges, resolutions and calibration values. The user interface features configurable softkey functions thus providing all users with optimal support. Check weighing requires users to use their time and resources efficiently at all times. In order to minimise set-up times between the individual batches, Combics® SPC has an integrated memory for 500 master data sets.

Product number, product name, machine number and batch code ensure unique identification and batch tracking. Furthermore, the memory ensures maximum flexibility for individual tare or destructive testing for five weighing rows.



# Modular structure for custom solutions

No system is better suited than the versatile Combics® SPC for fill quantity control of a wide range of products, including capsules, powder and capsules. Both short- and long-term monitoring tasks are logged with 100% traceability. The benefits of Combics® SPC are clear to see from day one: users can keep their production costs to a minimum thanks to reduced downtimes and comply with filling quantities to a high level of precision; in addition, an open investment structure and a long service life make Combics® SPC the first choice. The system is also available in a wide range of IP protection grades in line with your requirements and offers comprehensive connection options for the full range of external devices.



## Future-oriented solution

With an Ethernet connection and an additional software module, Combics® SPC can be expanded to become an integral part of the SPC network system Minebea Intec SPC@ Enterprise. This simple modification enables Combics® SPC to bear the main load of each network for quality assurance while also meeting IFS and HACCP requirements for process logging.

## Combics 3 indicator – available in protection grades IP44 to IP69K

Combics indicator IP44  
(pre-configured packages 1 and 2)



Combics 3 indicator IP68 | IP69K  
(pre-configured packages 3 and 4)



# Product features that meet your requirements

Product feature	Benefit for the user
The indicator and the approved platform form a verifiable unit  Shared use of hardware thanks to the integrated application software	Low space requirement, compact design and easy operation
Verified at the factory for the installation location	Fast commissioning without additional costs
Robust industrial finish, made from alloyed stainless steel in protection grades IP44 to IP68/69K	Reliable operation and maximum availability, also suitable for wet cleaning
Hygienic design as per EHEDG recommendations (EHEDG = European Hygienic Engineering & Design Group)	Minimised risk of contamination thanks to fast, easy cleaning. Guaranteed compliance with food safety regulations
Robust design for industrial use	Installation directly in the production line, which enables short machining paths and fast response to process-related fluctuations
Interfaces to platforms and compact scales  Built-in A D converter  Up to 3 weighing points can be connected	An individually configured solution for every weighing task  With multiple platforms to support a wide range of product specifications
Interfaces for printers, bar code scanners and external traffic light display	Flexibly adjustable to individual requirements
Large, backlit graphical display, high-contrast and with wide viewing angle, configurable softkey functions	Large, easy-to-read display, comprehensive operator guidance and informative data analysis
Motorised weight adjustment in high-resolution versions	Easy calibration and adjustment of scale
Numerical and alphabetical entry options via alphabetic keypad	Alphanumerical designations for products  machines  Production batches in line with trusted standards  Easy to operate, even for untrained staff
Built-in red, green and yellow ('traffic light') display	Immediate detection of tolerance limit breaches
Integrated application software for fill quantity control spot checks in full compliance with various packaging laws	Strikes the optimal balance between sparing use of raw materials and compliance with legal requirements
Three different tare modes	All kinds of tare containers can be managed: Preset tare  Individual tare  Destructive testing
Buffer memory for five weighing rows	Enables the continuation of the workflow, including for parallel individual tare tests and destructive testing of multiple batches
Free tolerance system and SPC	Easy individual check weighing as per internal standards or supply contract
Batch statistics and periodical statistics	Supports company-specific statistic times and ensures batch traceability
Largely configurable (evaluation procedure   Printout procedure  Workflow)	Optimal compromise between user friendliness and process reliability
Graphical process analysis after sampling or at any point in time	Fast access to information on the process
Check weighing in accordance with the European Pharmacopoeia	When connecting to a high-resolution analytical or laboratory scale, the system can be used to check the quantity of active ingredients in medicines. The system even provides outputs for controlling automatic tablet feed units



# Pre-configured packages

In order to make your life easier and to offer a product that optimally meets your requirements, all Combics® SPC systems supplied are calibrated in the factory. Choose the perfect package for your process from four pre-configured packages.

## Pre-configured package 1

Preferred package	Max.  d e (g)	IP protection grade	For packaged goods from
CASLE-SPC-06HCE	620 0.001 0.01	IP43	≥ 0.2 g/ml
CASLE-SPC-3HCE	3,100 0.01 0.1	IP43	< 10 g/ml
CASLE-SPC-3ICE	3,100 0.1 0.1	IP43	≥ 5 g/ml
CASLE-SPC-6HCE	6,100 0.01 0.1	IP43	< 10 g/ml
CASLE-SPC-6SCE	6,100 0.1 1	IP43	≥ 150 g/ml
CASLE-SPC-6SCE	6,100 0.1 0.1	IP43	≥ 5 g/ml

## Pre-configured package 2

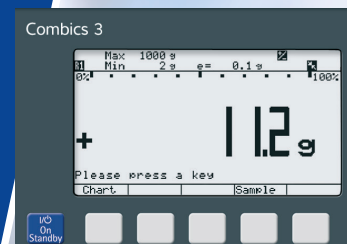
Preferred package	Max.  d e (g)	IP protection grade Indicator   Platform	For packaged goods from
CAWP-SPC-3NCE	3,000 2x3000 0.5	IP44 IP65	≥ 50 g/ml (EU)
CAWP-SPC-6NCE	6,000 2x3000 1	IP44 IP65	≥ 150 g/ml

## Pre-configured package 3

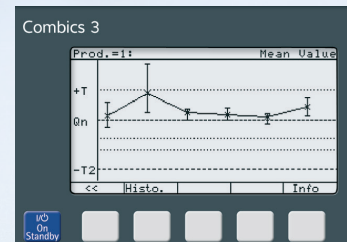
Preferred package	Max.  d e (g)	IP protection grade Indicator   Platform	For packaged goods from
CASE-SPC-16HCE	16,000 0.1 1	IP69K IP65	≥ 150 g/ml (EU)
CASE-SPC-35HCE	35,000 0.1 1	IP69K IP65	≥ 150 g/ml (EU)

## Pre-configured package 4

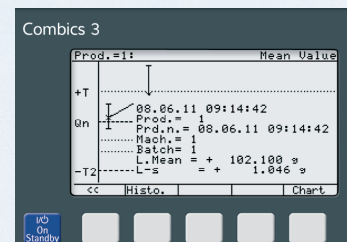
Preferred package	Max.  d e (g)	IP protection grade Indicator   Platform	For packaged goods from
CAWS-SPC-3NCE	3,000 2x3000 0.5	IP69K IP68	≥ 50 g/ml (EU)
CAWS-SPC-6NCE	6,000 2x3000 1	IP69K IP68	≥ 150 g/ml
CAWS-SPC-6UCE	6,000 3x3000 0.5	IP69K IP69K	≥ 50 g/ml (EU)
CAWS-SPC-15UCE	15,000 3x3000 1	IP69K IP69K	≥ 150 g/ml



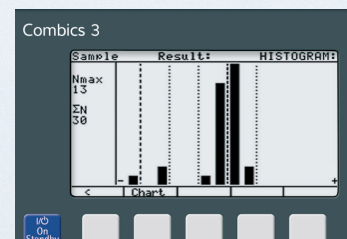
Main menu with user-defined softkeys



Average value diagram with min. | max. specification



Comprehensive information is available for the current batch at all times.



Bar charts provide a quick overview of the process.

# Indicators and accessories

## Printer and printer accessories

Description	Product feature	Order reference
Thermal direct printer, printer paper also available from us using the order number below	<ul style="list-style-type: none"> <li>■ Operation as strip/label printer with bar code printout</li> <li>■ with thermal direct printer</li> <li>■ up to 60-mm paper width</li> <li>■ with external power supply unit 100 – 240 Volt and network cable</li> </ul>	YDP05
3 paper rolls; 60 mm×75 m, thermal paper		69Y03090



## General accessories

Description	Order reference
Bar code reader for IP44 version	YBR05PS2
Bar code reader for IP69K version	YBR05FC
Dust covers (2 items)	YDC01CI

## Mechanical accessories

Description	Order reference
Column, 320×240 mm, column height 330 mm, for CAW-SPC	YDH01CWS
Column, 400×300 mm and 500×400 mm, column height 500 mm, for CAW-SPC	YDH02CWS
Display column for CASE-SPC models, column height 500 mm	YDH01P
Display column for CASLE-SPC models, column height 400 mm	YDH02P
Stainless-steel wall bracket, tiltable indicator	YDH02CIS





## Connection cable

Description	Order reference
Connection cable for bar code scanner YBR05FC, 5-pin DIN plug connector, female, 1 m	YCC02-BR02
Connection cable for printer YDP05, ZD420d/t or YDP14IS, open cable ends on 9-pin D-SUB plug connector, male, 6 m	YCC02-D09M6
Connection cable for printer YDP21 or PC, open cable ends on 9-pin D-SUB plug connector, female, 6 m	YCC02-D09F6
Connection cable for various accessories, 25-pin D-SUB plug connector, female, 6 m	YCC02-D25F6
Connection cable for digital Minebea Intec scales, 25-pin D-SUB plug connector, male, 6 m	YCC02-D25M6
Connection cable for digital Minebea Intec scales, 12-pin round connector, 6 m	YCC02-R12M6
Connection cable for various accessories and IS platform, 12-pin round plug connector, female, 6 m	YCC02-R12F6

## Options

Description	Option code
Connection cable for printer YDP05, ZD420d/t or YDP14IS, open cable ends on 9-pin D-SUB plug connector, male, 6 m	M3
Connection cable for printer YDP21 or PC, 9-pin D-SUB plug connector, female, 6 m	M9
Connection cable for PC, 9-pin D-SUB plug connector, female, 6 m	M4
Connection cable (6 m) with 25-pin plug connector, male for Minebea Intec scales with 25-pin D-SUB plug connector, female × 1	M2
Connection cable (6 m) with 12-pin round connector for Minebea Intec scales with 12-pin round socket × 1	M5
Connection cable for accessories, 25-pin D-SUB plug connector, female, 6 m	M1
Connection cable for accessories, 12-pin round socket, 6 m	M6
Connection cable for various accessories and IS platform, 12-pin round socket, 3 m × 1	M7
Connection cable for bar code reader YBR05FC, 5-pin DIN plug connector, female, 1 m	M8
Connection cable for printer YDP21 or PC, 9-pin D-SUB plug connector, female	M9
Connection cable for IS platform to WP1, 12-pin round socket, 3 m	M41

# Everything from a single source

Minebea Intec provides products, solutions and services to improve the reliability, safety and efficiency of production and packaging lines in the industry.

From goods receipt to goods issue – our portfolio comprises a variety of automatic and manual weighing and inspection solutions, software and services for a wide range of applications and industries.

## Process weighing and automation

- Vessel and silo scales
- Components for truck scales
- Bench and floor scales
- Batching and formulation

## Quality assurance

- Checkweighers
- Metal detectors
- X-ray inspection systems
- Statistical process control

## Services

- Technical support
- Commissioning
- Maintenance and repair
- Upgrades
- Training courses



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