



**100% Swiss**  
The highest in Quality & Technology

*Series 460 D / 490 K*

## *High performance industrial scales*

- *Precisa industrial scales represent the highest level of weighing technology.*
- *Precisa industrial scales meet all the requirements of the modern industrial user.*
- *Precisa industrial scales are solid and reliable, designed for rough use, year after year.*
- *Precisa Industrial Scales provide high performance at an attractive price.*
- *Precisa industrial scales can be integrated easily into the modern IT environment.*
- *Precisa industrial scales are Swiss made.*

**Precisa**

■ The Balance of Quality ■

## *Precisa industrial scales, Series 490 K*

*Reliable, reproducible.*

*Designed to perform and built for action.*



**All Precisa 490 K industrial scales are fitted with the Precisa Self Calibration System as standard.**



- This range of scales offers Swiss precision at a realistic price. The long list of weighing options offers a solution in all areas of industrial weighing where high precision is required.
- Using the finest electro-magnetic force restoration systems which conform to the highest metrological standards, all weighing results are absolutely reliable.
- Precisa industrial scales are equipped with a wide range of integrated applications, from simple parts-counting through to extended applications in such areas as advanced parts-counting, check-weighing of finished goods in the production process, establishing under or over-filling, defining filling capacities during the production process and many more.
- Precisa industrial scales are built for the demands of daily use in the industrial environment. The rugged chassis construction and a stainless steel platform give users full confidence in achieving accurate weighing results.
- The bright vacuum fluorescent display is large and built to offer protection against ingress of dust. All Precisa industrial scales are available in an IP65 version, which offers a high level of water and dust resistance.
- Precisa industrial scales are ideal for every conceivable industrial weighing application within their wide weighing ranges, where accurate results are important to the user.

### Technical data and weighing ranges 490 K series

Model	12000D	18000D	24000D	34000D	20000G	30000G	40000G	60000G	34000D-DR	34000D-FR	
Weighing range [g]	12100	18100	24100	34100	20100	30100	40100	62000	34100	34100	
Readability [g]	0,1	0,1	0,1	0,1	1	1	1	1	0,1 / 1	0,1 / 1	
Verification scale interval $e=$ [g]	1	1	1	1	1	1	2	10	1	1	
Tare range (subtractive) [g]	12100	18100	24100	34100	20100	30100	40100	62000	34100	34100	
Fine range (automatic switching) [g]									12100		
Floating range (adjustable) [g]										6100	
Reproducibility [ $\leq \pm$ g]	0,1	0,1	0,1	0,1	0,5	0,5	0,5	1	0,1 / 1	0,1 / 1	
Linearity [ $\leq \pm$ g]	0,2	0,2	0,2	0,2	1	1	1	1,5	0,2 / 1	0,2 / 1	
Response time [s]	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	
Sensitivity drift (10...30°C) [ $\leq \pm$ /°C]	4x10-6	3x10-6	3x10-6	2x10-6	4x10-6	4x10-6	4x10-6	4x10-6	4x10-6	4x10-6	
Floating display [s]	0,04/0,08/0,16/0,32										
Digital filter	3 stages										
Ambient temperature [°C]	0-40°C										
Line voltage [V]	Line voltage: 85 - 240 VAC, connection to mains via standard cable / C7 (protection class IP40)										
Frequency [Hz]	50/60										
Power consumption [VA]	25										
Weighing platform, stainless steel [mm]	400x300										
External dimensions (L x W x D) with indicator [mm]	400x465x150										
External dimensions (L x W x D) without indicator [mm]	400x300x150										
Net weight [Kg]	15										
Built-in interface	RS232/V24 bi-directional										
Protection class of platform without indicator IEC 529	IP54										
Technical specifications may be subject to change.											
<b>SCS</b>	Self Calibration System Fully automatic calibration: - Time - Temperature (temperature difference 3°C) controlled			Standard		<b>IP65</b>			Protection against ingress of water and dust Below scale weighing Indicator stand (mounted on scale)		Optional Optional Optional
	<ul style="list-style-type: none"> <li>Worldwide service coverage</li> <li>Upgrades via internet</li> <li>2 years guarantee</li> </ul>			Standard							

### Performance characteristics

- ICM (Intelligent Calibration Mode), automatic recognition of calibration weight
- Anti-theft code
- Password protection for programmed options
- Real-time clock with date and time
- Measurement results in ISO and GLP compliant formats
- Fully configurable print format
- RS232/V24/Precisa-Bus interface
- Capacity display
- User Menu Memorized (UMM)
- Protective cover
- Detachable indicator, cable length 1.5 metres

## *Precisa industrial scales, Series 460 D*

*Multi - task weighing, using the most modern electronics to achieve extreme precision.*



All Precisa 460 D scales are supplied with IP65 protection as standard.



- Series 460 D combines advanced weighing cell technology with powerful electronics. This combination enables a wide range of applications and guarantees perfect precision even with heavy loads.
- The 460 D series is a robust Swiss-made scale with a large vacuum fluorescent display. A secondary line in the display indicates the options available. On unstable surfaces, such as on a ship, various filter settings ensure optimum performance.
- User interface options, application selections and stored methods can be password protected to prevent changes being made by unauthorized users. Reports can be configured in ISO / GLP / GMP formats and printed out.



**Technical data**  
and weighing ranges 460 D series

	Model	60K	150K	300K
Weighing range	[ Kg ]	60	150	300
Readability	[ g ]	5	10	20
Tare range (subtractive)	[ Kg ]	60	150	300
Floating display	[ s ]	0,04/0,08/0,16/0,32		
Digital filter		3 stages		
Ambient temperature	[ °C ]	-10 - 40°C		
Line voltage	[ V ]	85 - 240 VAC		
Frequency	[ Hz ]	50/60		
Power consumption	[ VA ]	25		
Weighing platform, stainless steel	[ mm ]	500x400	600x600	800x600
External dimensions (L x W x D)	[ mm ]	500x400x135	600x600x160	800x600x160
Net weight	[ Kg ]	15	34	43
Built-in interface		RS232/V24 bi-directional		
Protection class of platform without indicator		IP65		
Technical specifications may be subject to change.				
<ul style="list-style-type: none"> <li>Worldwide service coverage</li> <li>Upgrades via internet</li> <li>2 years guarantee</li> </ul>		Standard Standard Standard		

**Performance characteristics**

- ICM (Intelligent Calibration Mode), automatic recognition of calibration weight.
- Anti-theft code
- Password protection for programmed options
- Real-time clock with date and time
- Measurements results in ISO and GLP compliant formats
- Fully configurable print format
- RS232/V24/Precisa-Bus interface
- Capacity display
- User Menu Memorized (UMM)
- Protective cover
- Platform IP65 as standard
- Indicator IP65 as standard

# Indicators

*User-friendly, multi-application indicators designed to meet every weighing requirement.*

## Indicator IB

*User-friendly, multi-application indicator. Standard keyboard layout with 10 keys. 4 freely definable function keys. Large digital display, 20 digit display information line (14 segments, fully alpha-numerical user guidance). Vacuum fluorescent display. Weighing-in guide +/-*

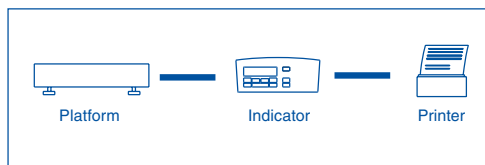
*Applications included: weight unit switching, counting, percent weighing, net totals, check weighing, animal weighing, totalisation, statistics, calculation, area weight calculation, Multi-User Memory (MUM)*

## Indicator IT

*User-friendly, multi-application indicator. Standard keyboard layout with 10 keys. 4 freely definable function keys. Additional keyboard for alphanumerical inputs and manual tare. Vacuum fluorescent display as per Indicator IB. Weighing-in guide +/-*

*Applications included: all the above applications included with Indicator IB plus Dynamic Differential Weighing, Minimum Sample Weight (MSW), and density determination.*

Example: balance with printer

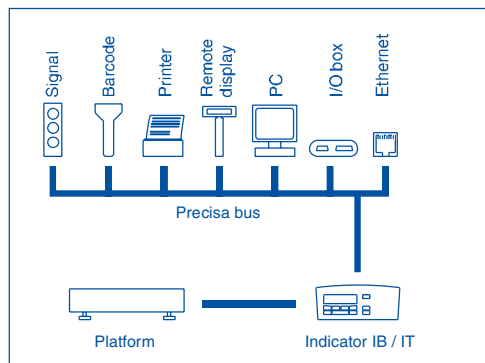


### Indicator IB / IT

Connection possibilities:

- Printer, PC
- or
- Precisa bus

IB / IT Indicator with Precisa Bus



### Indicator IB / IT

Connection possibilities with Precisa bus:

- Signal lamp
- Barcode scanner
- Printer
- PC
- Remote display
- I/O box
- Ethernet

**Indicator IS**

User-friendly, multi-application indicator. Keyboard layout with 8 keys. 4 freely definable function keys. Additional keyboard with 30 keys for alpha-numerical inputs. SmartBox®. Vacuum fluorescent display as per Indicator IB. Weighing-in guide +/-

All applications as per Indicator IT

**Counting: advanced parts counting with multiple memory functions**

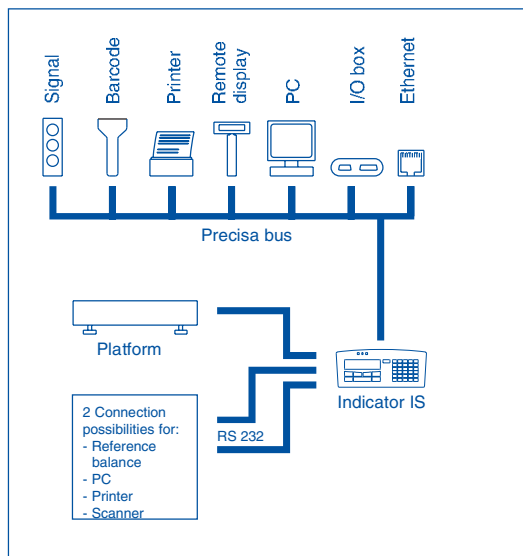
Extended counting and storage functions with 1000 product storage positions, 250 stored tare-weights, nominal and tolerance values. Totalization, definition of print format, memory protection.

or

**FPVO: Check and reference weighing of finished products during the production process,**

establishing under or over filling using 500 article storage positions, 500 daily and weekly statistics, average tare weight calculation, machine identification, print format definition, memory protection.

**IS Indicator**



**Indicator IS**

2 Connection possibilities RS 232 for:

- Reference balance
- PC
- Printer
- Barcode scanner

Additional Connection possibilities with Precisa bus:

- Signal lamp
- Barcode scanner
- Printer
- PC
- Remote display
- I/O box
- Ethernet



2 years warranty – world-wide

## The world of Precisa



### **Analytical, precision and industrial weighing machines**

Precisa's traditional areas of strength. We offer an optimum combination of quality, technology and ease of operation at attractive prices. Our products are compact, fast, and innovative.



### **Moisture and ash determination**

Precisa Gravimetrics AG is the only company world-wide which offers combined moisture analysis and ash determination systems. Precisa moisture and ash determination systems are world-wide leaders.



### **Sample preparation**

Precisa offers an extensive range of products for sample preparation. They are easy to use to save time and money.



### **Service and support**

With our applications laboratories in Asia and Europe, Precisa offers full customer support and method development. Precisa products are sold all over the world to satisfied customers.



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# Precisa

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