




Since 1887

SI Division of
Scientific Industries, Inc.



 1 866 473 6900

www.torbalscales.com

TORBAL - Quality, Technology and Standards

Electromagnetic load-cell built with the highest quality Alnico-magnets.

All magnets used in Torbal scales are exposed to a special heat treatment which assures exceptional temperature characteristics. In addition magnets are specially aged to assure that parameters and characteristics remain unchanged over time, thereby providing a long operating life.

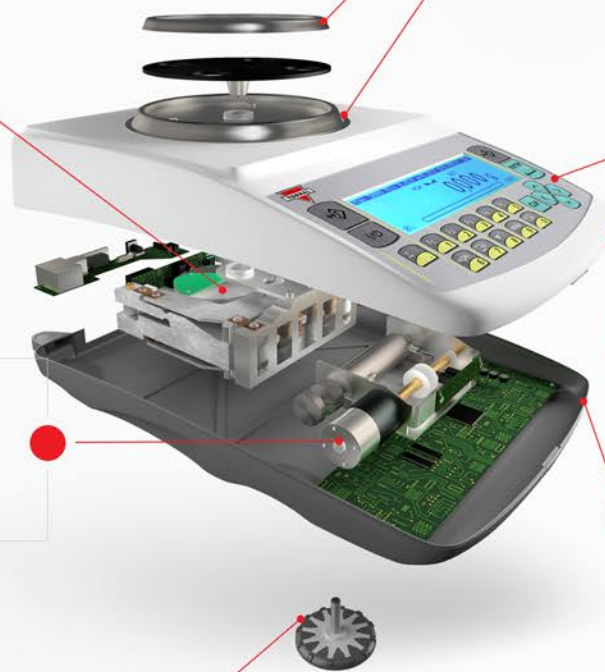
Stainless steel Pan and Draft Ring are resistant to corrosive chemicals

Sealed front panel is resistant to dust and spills

Fully automatic internal calibration mechanism

Complete heavy-duty metal housing, casted in high-pressure forms for optimal uniformity and highest quality casting surface

Easy-to-use leveling feet with comfort grip






















AGN and AG Professional Series

Analytical and Precision

Best-in-class performance combined with a scalable design for advanced laboratory and analytical applications. Equipped with a state-of-art automatic internal calibration mechanism that keeps the scale calibrated at all times, and provides optimum weighing accuracy. Unique die-cast metal housing guarantees the utmost durability and long operating life.

Functions

 PARTS COUNTING	 CHECK WEIGHING	 CHECK COUNTING	 PERCENT WEIGHING	 TOTALIZING
 COMPOUNDING & FORMULATION	 STATISTICS	 ANIMAL WEIGHING	 DISPLAY HOLD	 FILTERING
 AUTO CALIBRATION	 GLP	 SCANNING	 RS232	 USB
 ETHERNET	 WIFI	 PS2	 NTEP CERTIFIED (OPTIONAL AG MODELS)	



MODEL	AGN100	AGN200
Capacity	100g	200g
Readability (d)	0.0001g	
Linearity	+/-0.0002g	
Stabilization	~ 3sec	
Accuracy Class	I	
Pan Size (mm)	Ø 3.5" (90 mm)	
Scale Dimensions	8.5" x 13.5" 13.6" (216 x 345 x 347 mm)	
Interface Ports	RS232 USB PS2 Ethernet (optional) WiFi (Optional)	

Features



- Complete heavy-duty metal housing
- Automatic Internal Calibration
- USB Interface
- Ethernet Network Port (optional)
- WiFi (optional)
- PS2 Scanner & External Keyboard Port
- RS-232 output

- Intuitive Graphical LCD display
- 20 key control panel with navigation keys
- Onscreen Instructions
- 12 weighing functions
- 9 weighing units



Superior electromagnetic load cell with automatic internal calibration



Equipped with USB, RS232, and PS2 ports. Available with optional Ethernet and WiFi



Intuitive graphical LCD with onscreen instructions

MODEL	AG100	AG200	AG300	AG500	AG1000	AG2000	AG3000	AG4000
Capacity	100g	200g	300g	500g	1000g	2000g	3000g	4000g
Readability (d)	0.001g				0.01g			
Linearity	+/-0.002g				+/-0.02g			
Stabilization	~ 3sec							
Accuracy Class	II							
Pan Size (mm)	Ø 4.7" (120 mm)				6.4" x 6.4" (165x165 mm)			
Scale Dimensions	8.5" x 13.5" x 3.5" (216 x 345 x 90 mm)							
Interface Ports	RS232 USB PS2 Ethernet (optional) WiFi (Optional)							

AGCN and AGZN Advanced Series Analytical

With an outstanding price-to-performance ratio the AGCN is ideal for basic analytical weighing applications. The balance combines a high quality electromagnetic load cell with a complete die-cast metal housing, to deliver unmatched performance and reliability in all settings.

Functions



PARTS COUNTING



TOTALIZING



PERCENT WEIGHING



AUTO CALIBRATION



RS232



DENSITY MEASURING

Features

- Robust die-cast metal housing
- Automatic Internal Calibration
- Easy access weighing chamber
- Backlit LCD display
- Density Measurement Feature
- Spill proof sealed front panel with dual tare keys
- RS-232 output



Spacious and easily accessible weighing chamber with three sliding doors.

MODEL	AGCN100	AGCN200
Capacity	100g	200g
Readability (d)	0.0001g	
Linearity	+/-0.0002g	
Stabilization	~ 3sec	
Accuracy Class	I	
Pan Size (mm)	∅ 3.5" (90 mm)	
Scale Dimensions	8.5" x 13.5" x 13.6" (216 x 345 x 347 mm)	
RS232 Port	Bidirectional	

AGC Advanced Series Precision

The AGC offers high performance, with a simple design, and an outstanding value. Engineered to meet the needs of the most demanding laboratory applications. Equipped with automatic internal calibration to guarantee low maintenance and optimum weighing accuracy.



Functions



PARTS COUNTING



CHECK WEIGHING



PERCENT WEIGHING



ANIMAL WEIGHING



TOTALIZING



DISPLAY HOLD



RS232



GLP



AUTO CALIBRATION



Features

- Robust die-cast metal housing
- Automatic Internal Calibration
- 7 segment LCD display
- Eight-key sealed control panel with dual tare keys
- 7 weighing functions
- 9 weighing units
- RS-232 output



Backlit LCD with intuitively organized function menus



Easy to use leveling feet with comfort grip



Used capacity indicator

MODEL	AGC100	AGC200	AGC300	AGC500	AGC1000	AGC2000	AGC3000	AGC4000
Capacity	100g	200g	300g	500g	1000g	2000g	3000g	4000g
Readability (d)	0.001g				0.01g			
Linearity	+/-0.002g				+/-0.02g			
Stabilization	~ 3sec							
Accuracy Class	II							
Pan Size (mm)	Ø 4.7" (120 mm)				6.5" x 6.4" (165 x 165 mm)			
Scale Dimensions	8.5" x 13.5" x 3.5" (216 x 345 x 90 mm)							
RS232 Port	Bidirectional							



AD Series Precision

Affordable solution to demanding everyday precision weighing applications. High performance and proven weighing technology combined with a compact space-saving design offers unmatched everyday productivity. Heavy-duty metal housing assures incomparable durability and long operating life. The AD series is defined through its simplicity, accuracy, and robustness.

Functions



PARTS
COUNTING



CHECK
WEIGHING



PERCENT
WEIGHING



TOTALIZING



ANIMAL
WEIGHING



DISPLAY
HOLD



RS232



GLP



MODEL	AD50	AD100	AD200	AD300	AD500	AD1000	AD2000	AD3000	AD6
Capacity	50g	100g	200g	300g	500g	1000g	2000g	3000g	6000g
Readability (d)	0.001g					0.01g			0.1g
Linearity	+/-0.002g					+/-0.02g			+/-0.2g
Stabilization	~ 3sec					~ 3sec			~ 3sec
Accuracy Class	II								
Pan Size (mm)	Ø 4.7" (120 mm)				Ø 5.9" (150 mm)				225x165
Scale Dimensions	9.4" x 10.7" x 3.5" (239 x 273 x 91 mm)								
RS232 Port	Bidirectional								



Optional draft shield for active open spaces



RS-232 port for data transfer to PC or printer



Fast and intuitive calibration in less than 30 seconds



Large 5.9" diameter pan on all 0.01g models



AD6 is equipped with a spacious 8.8" x 6.5" rectangular weighing platform

Features

- 7 segment LCD display
- 6 key sealed control panel
- 7 weighing functions
- 9 weighing units
- RS-232 output
- Built in draft ring
- Easy two-step calibration
- Automatic zero setting mechanism
- Easy leveling
- Robust die-cast metal housing



Heavy-duty design combined with a high accuracy electromagnetic load-cell



Unique draft ring design deflect most common air movements

ATS & BTS Series Precision Moisture Analyzers

Budget friendly analyzers designed for basic everyday moisture analysis. Compact modern design combined with a powerful load-cell, and halogen heating elements guarantees accurate results, at an outstanding value.

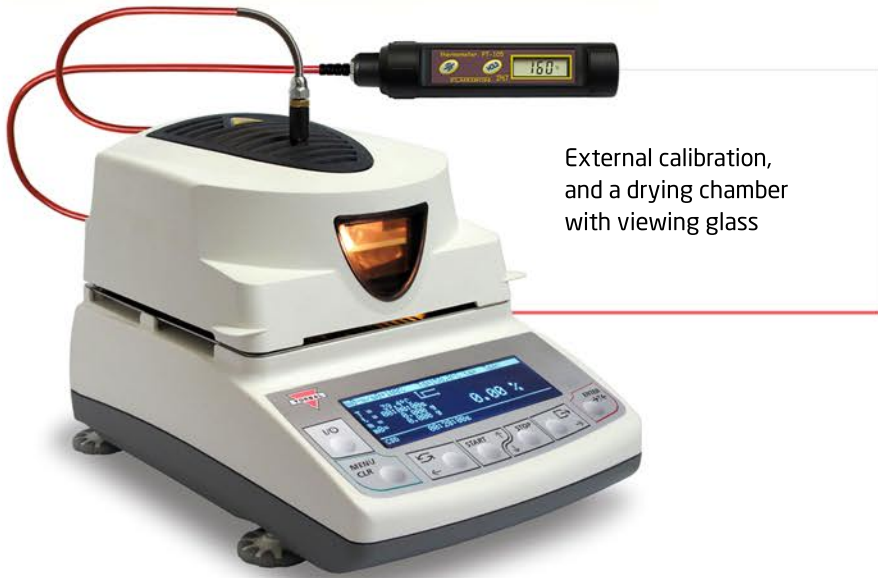
Functions



Features

- 4 Drying Profiles
- 20 Memory Parameter Locations
- Onscreen Chart Plotting
- Temperature Calibration

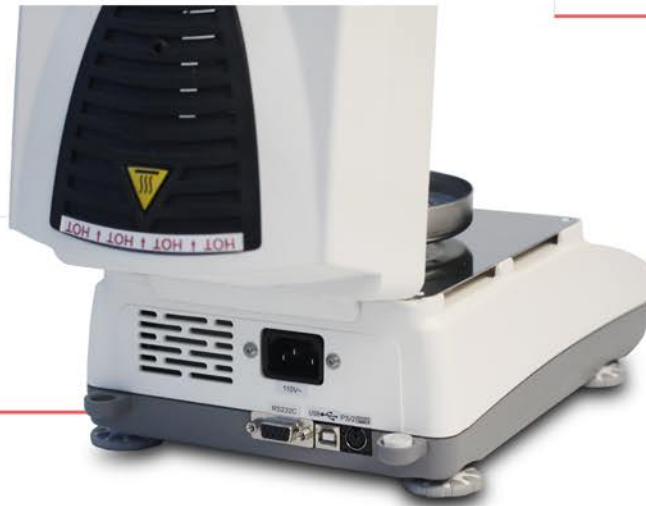




External calibration,
and a drying chamber
with viewing glass



Graphical LCD with intuitive user
interface



USB interface
for easy PC connectivity

MODEL	ATS60	ATS120	BTS110
Maximum Capacity	60g	120g	110g
Readability (d)	0.001g		0.01g
Analyzer Resolution	0.01%		0.1%
Moisture Measurement Accuracy	0.5g to 5g Sample: 0.1% > 5g Sample: 0.01%		5g to 50g Sample: 0.1% > 50g Sample: 0.01%
Interface Ports	USB ["B" Type], RS232C, PS2		
Maximum Drying Temperature	160°C		
Maximum Drying Time	10 hours		
Drying Power	200W		

AGS Series

Professional Moisture Analyzers

AGS PRO analyzers have been designed to perform in the most demanding applications. Compact rugged metal housing makes this model resistant to heavy usage in even the most challenging environments. Built with TORBAL's electromagnetic load-cell the analyzer offers uncompromised accuracy of 0.01% (0.001g), while delivering 250W of drying power with a temperature range of 250C.

Functions



STATISTICS



DRYING
PROFILES



TEMPERATURE
CALIBRATION



REPORT
PRINTING



RS232



USB



PS2



Features

- Professional Fast drying up to 250C
- Multiple profiles and analysis modes
- Onscreen Chart Plotting
- Temperature Calibration
- Intuitive interface
- Easy-to-use setup menus



Spacious heavy-duty drying chamber



Onscreen real-time graph plotting



External Calibration
up to 250C


MODEL	AGS50	AGS100
Maximum Capacity	50g	100g
Readability (d)	0.001g	
Analyzer Resolution	0.01%	
Moisture Measurement Accuracy	0.01%	
Interface Ports	USB ["B" Type], RS232C, PS2	
Maximum Drying Temperature	250°C	
Maximum Drying Time	10 hours	
Drying Power	250W	

ATA Compact

Precision and Laboratory

The ATA Compact series combines a small footprint with high precision and accuracy. The ATA is one of the smallest laboratory scales available on market. Built with high strength antistatic ABS housing, and equipped with automatic internal calibration, the scale offers outstanding performance and value. The series delivers numerous interfacing capabilities via USB, RS232, as well as optional Ethernet and WiFi ports.

Functions

 PARTS COUNTING	 CHECK WEIGHING	 PERCENT WEIGHING	 TOTALIZING
 ANIMAL WEIGHING	 DISPLAY HOLD	 COMPOUNDING & FORMULATION	 FILTERING
 AUTO CALIBRATION	 GLP	 RS232	 USB
 ETHERNET (OPTIONAL)	 WiFi (OPTIONAL)	 NTEP CERTIFIED (OPTIONAL)	



MODEL	ATA220(i)	ATA320(i)	ATA520i	ATA1200(i)	ATA2200(i)
Capacity	220g	320g	520g	1200g	2200g
Readability (d)	0.001g			0.01g	
Linearity	+/-0.002g			+/-0.02g	
Stabilization	~ 3 sec.				
Internal Calibration	Optional		Standard	Optional	
Accuracy Class	II				
Pan Size (mm)	Ø 4.7" (120 mm)			Ø 5.9" (150 mm)	
Scale Dimensions	7.3" x 11.4" x 3.5" (185 x 290 x 90 mm)				
Interface Ports	RS232 USB Ethernet (optional) WiFi (optional)				

BA/M Bench

General Purpose and Industrial



The BA is a budget friendly bench scale designed specifically for versatile weighing operations. The scale includes all essential weighing applications such as parts counting, totalizing, and dynamic weighing. The BA is equipped with USB and RS232 interface ports which are ideal for connecting the scale to a computer, or printer.



Functions

PARTS COUNTING	ANIMAL WEIGHING	CHECK WEIGHING	PERCENT WEIGHING
TOTALIZING	COMPOUNDING & FORMULATION	RS232	USB



BAM series has a heavy duty compact platform design with a small bench type footprint. Ideal for use in low capacity industrial weighing applications. Equipped with a stainless steel platform, large LED display, RS232 interface, and optoisolator. Loaded with features, functions, and weighing units.

MODEL	BA3	BA3M	BA6	BA6M	BA15	BA15M
Maximum Capacity	3000g / 6lbs		6000g / 15lbs		15kg / 30lbs	
Readability (d)	1g / 0.002lbs		2g / 0.005lbs		5g / 0.01lbs	
Temporary (BP) increased Resolution	0.1 g / 0.0002 lbs		0.2 g / 0.0005 lbs		0.5 g / 0.001 lbs	
Stabilization time (typical)	<3s					
Accuracy Class	III					
Pan Size (mm)	8.9" x 6.5" (225 x 165 mm)			11.8" x 11.8" x 2.6" (300 x 300 x 65 mm)		
Scale Dimensions	9.3" x 9.8" x 2.6" (235 x 250 x 65 mm)			11.8" x 11.8" x 2.6" (300 x 300 x 65 mm)		



Accessories



Printer

Create printed records of weighing transactions.



Draft Shield

This draft shield is particularly useful when using the scale in environments with sizeable drafts that may be caused by fans, heaters or ventilation systems.



Scanner

The scanner is ideal for inventory processing and integration with the AG/N professional series.



Density Determination Kit

The Torbal Density Determination Kit is designed to determine the density of solids and fluids using Archimedes principle in a way that eliminates the need for below the pan weighing.



Miniature Slim Keyboard

The Torbal miniature slim keyboard connects directly to the scale via PS2 port, and can be used to type in notes, label samples, as well as reference weights, and ingredients.

Software



Pro cell serves as link between Torbal scales and third party software applications.



The **STAT** software is compatible with all Torbal scales. The software collects weighing results and performs all most commonly used statistical calculations.



Torbal Communications allows Torbal scales and balances to connect and transfer data to a Windows PC.



Pro Mass is designed to allows Torbal AGS and ATS moisture analyzers to easily transfer data to a PC or a laptop.



Since 1887



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