

Agar Scientific Ltd

Unit 7, M11 Business Link Parsonage Lane, Stansted Essex, UK CM24 8GF t: +44 (0)1279 215 506 e: sales@agarscientific.com w: agarscientific.com

Ohaus Explorer Semi-Micro Analytical Balances

The Ohaus Explorer series of semi-micro balances have been designed with the technology to ensure very specific weighing results are highly accurate. Sophisticated laboratories requiring accuracy and looking for innovative technology to obtain measurement results can find both in Explorer semimicro balances.

Features

 Explorer's weighing cells precisionmachined from a solid metal block, together with AutoCal[™] provides exceptional accuracy and durability suitable for laboratory and industrial environments



- Features such as four-level user management with password protection, and un-editable system log plus a high level of configurability make Explorer balances well suited for regulated applications.
- A detachable terminal with a large colour touchscreen, programmable IR sensors and a frameless draftshield make Explorer balances easy & convenient to use
- Advanced models include built-in Ioniser and automatic doors
- Dual range models are available, such as where the capacity of the fine range is 52g and the maximum capacity is 120g

Weighing Performance

The signature AutoCal internal calibration system ensures the balance is always ready to use and eliminates the need for manual routing calibration. Explorer's internal calibration mechanism uses multiple weights and adjusts the balance at several points within the weighing range, resulting in lower measurement uncertainty than a simple span calibration. Additionally, Explorer balances feature a built-in Repeatability Test, which helps evaluate the balance's performance and aids in determining a suitable minimum weight for applications requiring high accuracy.

Connectivity

Explorer balances include a series of communication interfaces including RS-232, USB and Ethernet, allowing accessories such as RFID readers, printers and barcode scanners to be connected to the balance. A simple yet complete communication protocol allows Explorer balances to be easily connected to a PC or integrated with larger systems.

Unit 7, M11 Business Link, Parsonage Lane, Stansted, Essex CM24 8GF UK T: +44 (0)1279 215 506 ♦ E: sales@agarscientific.com ♦ W: agarscientific.com





Agar Scientific Ltd Unit 7, M11 Business Link Parsonage Lane, Stansted Essex, UK CM24 8GF t: +44 (0)1279 215 506 e: sales@agarscientific.com w: agarscientific.com

Data Management

Explorer balances are equipped with internal databases, which can be used to store, manage, retrieve application and system data. An internal weighing mode library allows the saving and loading of weighing mode configurations. The system event log records up to 5000 changes to the balances settings, calibrations, and adjustments, as well as user access. System logs can be exported as a non-editable PDF file and saved onto a USB memory stick. A built-in real-time clock ensuring the data captured runs concurrently.

User Management

The user management system allows a system administrator to create up to 110 users and assign them to 1 of 4 pre-existing groups with varying access rights to the balance and enforces password protection ensuring data integrity in a multi-user environment.

Operator Experience

Among the features that enhance the operator experience:

- Colour touchscreen display
- Four programmable touches sensors, allowing the operator to perform common functions and commands with a swipe of the hand
- Modular design in which the base and display can be separated to allow the balance to fit on the lab bench
- Anti-static coated glass to dissipate static charges in the weighing chamber, which could adversely affect weighing results
- Automatic Doors

Automatic Doors (available on advanced models)

The automatic door feature, available on certain models, allows access to the weighing chamber without the need to touch the draft shield door. Placement of samples is achieved in one swift motion, eliminating the repetition of picking up and putting down samples due to a lack of free hands.

Ioniser (available on advanced models)

The built-in ioniser, included in Explorer automatic door models, generates bipolar ions continuously from positive and negative discharge electrodes and directs the ionised air onto the charged body to eliminate static electricity. These charges can build up in the weighing chamber and alter weighing dimensions by as much as several milligrams.





Agar Scientific Ltd

Unit 7, M11 Business Link Parsonage Lane, Stansted Essex, UK CM24 8GF t: +44 (0)1279 215 506 e: sales@agarscientific.com w: agarscientific.com

Non-Certified Models	EX125D*	EX125	EX225D*	EX225D/AD*	EX225/AD
Certified Models	EX125DM*	EX125M	EX225DM*	EX225DM/AD*	EX225M/AD
Maximum Capacity (Fine range / Full range)	52g / 120g	120g	120g / 220g	120g / 220g	220g
Readability (fine range)	0.01mg	0.01mg	0.01mg	0.01mg	0.01mg
Readability (full range)	0.1mg		0.1mg	0.1mg	
Verification Interval * e (g)	Certified models = 0.001g				
Accuracy Class	Certified models = 1g				
Min (g)	Certified models = 0.001g				
Repeatability (10g, standard)	0.01mg	0.01mg	0.01mg	0.01mg	0.01mg
Repeatability (fine range)	0.02mg	0.02mg	0.02mg	0.02mg	0.03mg
Repeatability (full load)	0.1mg		0.1mg	0.1mg	
Linearity Deviation (10g)	± 0.06 mg				
Linearity Deviation (full range)	± 0.1mg				
Stabilisation Time (fine range)	8 seconds	8 seconds	8 seconds	8 seconds	8 seconds
Stabilisation Time (full Load)	2 seconds		2 seconds	2 seconds	
Minimum Weight (U = 1%, k =2)	2mg				
USP Minimum Weight	20mg				
Optimised USP Minimum Weight (SRP ≤ 0.41d) **	9mg				
AutoCal [™]	Standard Automatic Calibration System				
Temperature Differ	1.5°C				
Time Interval	3 hours				
Sensitivity Time Drift	0.5 ppm / °C				
Automatic Doors	N/A	N/A	N/A	Standard	
Built-In Ionizer	N/A	N/A	N/A	Standard	

Agar Scientific Ltd

Unit 7, M11 Business Link, Parsonage Lane, Stansted, Essex CM24 8GF UK <u>T: +44 (0)1279 215 506 ♦ E: sales@agarscientific.com ♦ W: agarscientific.com</u>

