

HW-CEP Bench Scales

Intrinsically Safe Scales for Hazardous Environments



INTRINSICALLY SAFE BENCH SCALES

Weigh Safely in Hazardous Environments

The HW-CEP bench scale family is designed to weigh safely in potentially explosive atmospheres. The intrinsically safe product design ensures a high level of safety and complies with all relevant hazardous area standards.

IECEx

ATEX

FM/FMc (NEC505)

FM/FMc

(NEC500)

Flammable Gases

/ Vapors Present

Continuously

Zone 0

Division 1

Flammable Gases

/ Vapors Present

Intermittently

Zone 1

Flammable Gases

/ Vapors Present

Accidentally

Zone 2

Division 2

Safety Certified

The HW-CEP family of bench scales are certified to global standards IECEx, ATEX and FM/FMc and are approved for use in FM Class 1, Division 1, groups C & D hazardous areas.

c	CERTIFICATE OF	CONFORMITY					
1.	HAZARDOUS (CLASSIFIED) LOCAT	TION ELECTRICAL EQUIPMENT PER US REQUIREMENTS					
2.	Certificate No:	FM17US0171X					
3.	Equipment: (Type Reference and Name)	HV-CEP Series, HW-CEP Series, Platform Scale					
4.	Name of Listing Company:	A&D Company, Limited					
5. 6.	Address of Listing Company:	1-243, Asahi, Kitamoto-shi, Saitama Japan recorded in confidential report number:					
		3060570 dated 12 January 2018					
 FM Approvals LLC, certifies that the equipment described has been found to comply with the follow standards and other documents: 							
	FM Class 3600:2011, FM Cla	ss 3610.2015. FM Class 3810:2017, ANSI/ISA 60079-0:2013, ANSI/ISA 60079-11:2014					
8.	If the sign X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.						
9.	Approvals surveillance audit program	examination and testing of the products specified herein. The FM has further determined that the manufacturing processes and quality story to manufacture the product as examined, tested and Approved.					
10.	Equipment Ratings:						
	Intrinsically Safe for Class I, Division (classified) locations, with an ambient	, Groups C and D; AEx is for Class I, Zone 0, Group IIB hazardous temperature rating of T4 for -25°C \leq Ta \leq +40°C.					
9	tificate issued by: 2. Marcurolink Marcurocant agor, Electrical Systems	12 January 2018 Date					
Man							
Man	To verify the availability of the	Approved product, please refer to <u>www.acorovalouide.com</u>					
Man		Approved product, please refer to <u>www.acorowsballde.com</u>					
FM	THIS CERTIFICATE MAY ONLY BE	REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE					

Performance and Features to Improve Your Weighing Operation



Dependable & Robust

The stainless steel weighing pan (SUS430) resists chemicals, scratches and rust. The IP65 base is easy to keep clean and hygienic and allows for weighing where spills are a potential hazard.

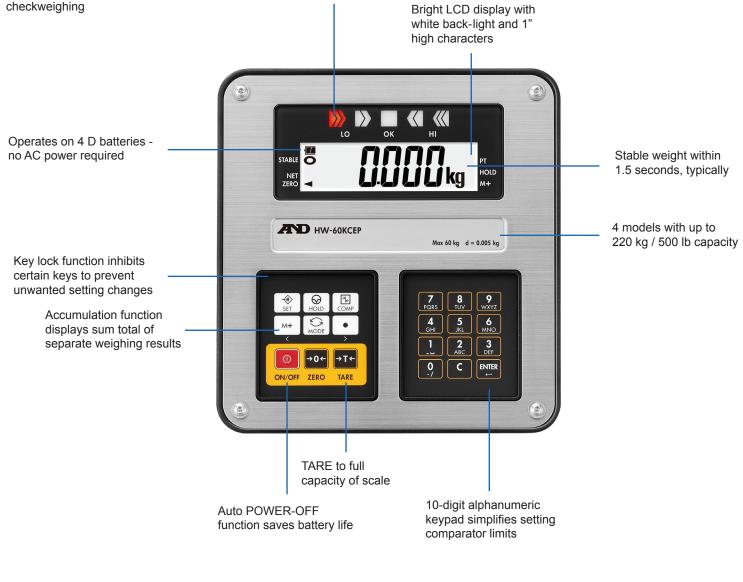
Long Battery Life

The HW-CEP Series operates on 4 D approved batteries, making it unnecessary to secure power from a safe area via a safety barrier. This avoids the expense and inconvenience of special wiring installed by a qualified electrician. And with battery power, you can take the scale where you want to weigh.



Red-Green-Amber LED comparator lights increase productivity by allowing fast checkweighing

Lights can be configured and set to 3,5, or 7 levels



Auto-tare Function

The scale can automatically tare when the weight reaches a set value. Negative values can also be used as comparator limits. Combine these functions for "take-away" check weighing: measure out a target amount repeatedly from a master container without the need to press the tare key each time.



Tare the initial weight (either manual or automatic)



Take out contents until the target weight is reached and the comparator light turns green



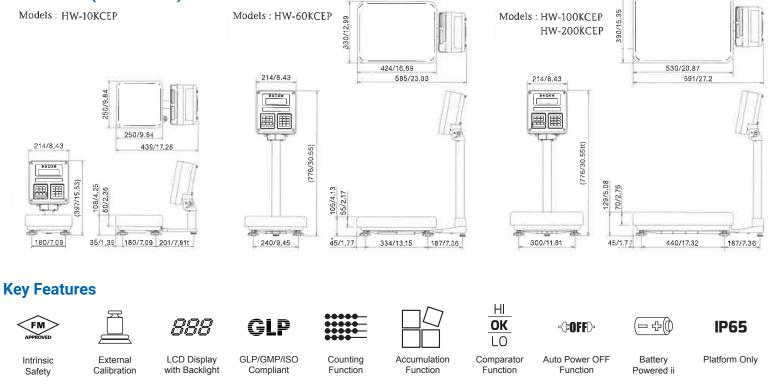
The scale automatically performs tare and returns display to zero

Specifications		HW-10KCEP	HW-60KCEP	HW-100KCEP	HW-200KCEP		
Capacity		10	60	100	220		
kg	Min. display	0.001	0.005	0.01	0.02		
lb	Capacity	20	150	200	500		
U	Min. display	0.002	0.01	0.02	0.05		
oz	Capacity	320	2400	3200	8000		
02	Min. display	0.05	0.2	0.5	1		
lb-oz	Capacity	20 lb	- N/A				
ID-02	Min. display	0.1 oz		N/A			
Counting mode	Max. countable number	100,000	120,000	100,000	110,000		
Counting mode	Number of samples	5, 10, 20, 50 or 100					
Response time*i		Within 1.5 seconds					
Repeatability (std. deviation) [kg]		0.002	0.01	0.02	0.04		
Linearity (kg)		±0.002	±0.01	±0.02	±0.04		
Sensitivity drift (typical)		±20 ppm / °C (5 °C to 35 °C / 41 °F to 95 °F)					
Display		7 segment LCD (Character height: 25 mm) with backlight; 3-color, 5-step LED comparator lights					
Display refreshment rate		10 times / second					
Operating temperature		-10 °C to 40 °C / 14 °F to 104 °F, 85% R.H. or less (no condensation)					
Power supply		Four D-size, alkaline, 1.5 V batteries*ii					
Battery Life (approx.)		1,500 hours with LED and backlight OFF or 1,000 hours with LED and backlight ON					
Weighing Pan size		250 × 250 mm	330 × 424 mm	390 × 530 mm			
		9.8 × 9.8 in	13.0 × 16.7 in	15.4 × 20.9 in			
Dimensions (M/ × D		250 × 439 × 397 mm	330 × 585 × 776 mm	390 × 691 × 776 mm 15.4 × 27.2 × 30.6 in			
Dimensions (W × D	л × п)	9.8 x 17.3 x 15.6 in	13.0 × 23 × 30.6 in				
Weight (approx.)		8 kg / 17.6 lb	12 kg / 26.5 lb	18 kg / 39.7 lb			

*i Time required for the last digit to settle (the stabilization mark will be lit one second after), which is subject to the weighing environment, response characteristic setting and how the target object is placed.

*ii Only DURACELL MN1300, ENERGIZER E95, or Panasonic LR20 (XI) can be used (but not mixed).

Dimensions (mm/inches)





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