Waterproof Platform Scales

HV-CWP/HW-CWP

Series

Weighing at the Speed of Lights
in tough environments

ISO 9000 CERTIFIED

How to Reduce Waste and Increase Productivity

The A&D HV-CWP/HW-CWP series is a multi-functional platform scale fitted for measurement under wet conditions. With a durable construction, high-speed response times and exceptional check weighing capabilities, it can meet the demands of even the most challenging industrial applications.

IP65 dust & waterproof*[1] with stainless steel (SUS304) surface

Downtime and loss is reduced as scales without waterproofing often result in being damaged within a short period of time. Additionally, these features allow you to keep the scale clean and hygienic.

*[1] Permits no ingress of dust and withstands water jetting from any direction.

IP65 with SUS304

High-speed measurement—response in 1 second or less (typical for the HV-CWP series) *[2]

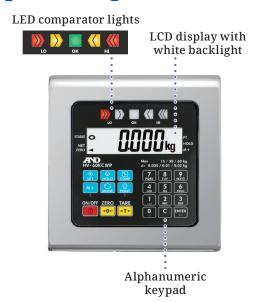Fast-paced weighing is an essential prerequisite for streamlining operations.

*[2] Time required for the last digit to settle (the stabilization mark will be lit one second after). With the HW-CWP series, response typically takes not more than 1.5 seconds.

Bright and multi-colored 5-step LED comparator lights

With highly intuitive comparator lights, check weighing (judging whether the measured weight is within the designated limits) becomes far more accurate and efficient than with a numeric display alone, leading to a significant cost reduction.

LED comparator lights

LCD display with white backlight

■ Auto-tare and negative comparison functions

The scale can perform tare automatically when the weight reaches the set target range. Additionally, negative values can be used as comparator limits. With these functions combined, you can perform "take-away" check weighing, that is, removing a target amount repeatedly from its container with no key press.

Alphanumeric keypad

LCD display (26 mm character height) with white backlight

Do not underestimate the effect of display visibility on operators' work efficiency, fatigue and tendency to make errors, especially in areas where illumination is not sufficient.

Quick and easy settings using the alphanumeric keypad

Direct alphanumeric input makes it simple and straightforward to enter/re-enter preset tare values, comparator limits, calibration values and various internal settings.

■ Key lock function

You can inhibit the use of certain keys to prevent operators from making unwanted changes to the scale settings.

Optional roller conveyers

Large and medium-size roller conveyers (HVW-13 and HVW-14 respectively) can make measurements of heavy objects in conveyer systems smoother and quicker.

HVW-13

Wide selection of capacities and resolutions

Select a scale that best suits your purpose and budget from either HV-CWP series of three multi-interval*3 models and HW-CWP series of four high-resolution models (see the specifications for details).

*3 The lighter the target object, the finer the readability.

Two slots for optional data communication interfaces

One is for a comparator relay output/buzzer interface (HVW-04CWP), which enables signaling check weighing results by buzzer and/or external comparator (traffic) lights. The other is for either USB interface (HVW-02BCWP)*4 or RS-232C interface (HVW-03CWP) for outputting data, entering commands, and changing the scale settings externally. The scale is still IP65 with HVW-04CWP and/or HVW-03CWP installed.*5

*4 For communication with a PC only. The driver software can be downloaded for free.
*5 Except if a loose-wire cable is used for connection. When HVW-02BCWP is installed, the scale is no longer dust or waterproof.

Other Useful Features

✔ GMP/GLP compliant output to meet documentation requirements

✔ Universal Flexi Coms (UFC) function that lets you edit serial data output format or printout format

✔ Display hold function that makes it easy to read and record the display value when external disturbances can occur unexpectedly

✔ Counting mode to count a number of small pieces of the same mass value instantly and precisely

✔ Accumulation (M+) function to display the sum total of separate weighing results

✔ Display angle freely adjustable to suit the convenience of individual operators

✔ Display unit holder (AX-043005266) available to separate the display unit from the scale on a bench

Specifications

		HV-15KCWP	HV-60KCWP	HV-200KCWP	HW-10KCWP	HW-60KCWP	HW-100KCWP	HW-200KCWP
kg	Capacity	3 / 6 / 15*i	15 / 30 / 60*i	60 / 150 / 220*i	10	60	100	220
	Min. display	0.001 / 0.002 / 0.005*i	0.005 / 0.01 / 0.02*i	0.02 / 0.05 / 0.1*i	0.001	0.005	0.01	0.02
lb	Capacity	6 / 15 / 30*i	30 / 60 / 150*i	150 / 300 / 500*i	20	150	200	500
	Min. display	0.002 / 0.005 / 0.01*i	0.01 / 0.02 / 0.05*i	0.05 / 0.1 / 0.2*i	0.002	0.01	0.02	0.05
oz	Capacity	96 / 240 / 480*i	480 / 960 / 2400*i	2400 / 4800 / 8000*i	320	2400	3200	8000
	Min. display	0.05 / 0.1 / 0.2*i	0.2 / 0.5 / 1*i	1 / 2 / 5*i	0.05	0.2	0.5	1
lb-oz	Capacity	30 lb	N/A		20 lb	N/A		
	Min. display	0.1 oz			0.1 oz			
Counting mode	Max. countable number	150,000	120,000	110,000	100,000	120,000	100,000	110,000
	Number of samples	5, 10, 20, 50 or 100						
Stabilization time*ii		Within 1 second			Within 1.5 seconds			
Repeatability (std. deviation) [kg]		0.001 / 0.002 / 0.005	0.005 / 0.01 / 0.02	0.02 / 0.05 / 0.1	0.002	0.01	0.02	0.04
Linearity [kg]		±0.001 / ±0.002 / ±0.005	±0.005 / ±0.01 / ±0.02	±0.02 / ±0.05 / ±0.1	±0.002	±0.01	±0.02	±0.04
Sensitivity drift		±20 ppm / °C (5 to 35 °C / 41 to 95 °F)						
Display		7 segment LCD (Character height: 26 mm) with backlight 3-color, 5-step LED comparator lights						
Display update		10 times / second						
Operating environment		–10 °C to 40 °C / 14 °F to 104 °F, 85% R.H. or less (no condensation)						
Power supply		AC main (100 to 240 V)						
Weighing pan size		250 × 250 mm 9.8 × 9.8 in	330 × 424 mm 13.0 × 16.7 in	390 × 530 mm 15.4 × 20.9 in	250 × 250 mm 9.8 × 9.8 in	330 × 424 mm 13.0 × 16.7 in	390 × 530 mm 15.4 × 20.9 in	
Dimensions (W × D × H)		250 × 470 × 430 mm 9.8 × 18.5 × 16.9 in	330 × 616 × 752 mm 13.0 × 24.3 × 29.6 in	390 × 722 × 752 mm 15.4 × 28.4 × 29.6 in	250 × 470 × 430 mm 9.8 × 18.5 × 16.9 in	330 × 616 × 752 mm 13.0 × 24.3 × 29.6 in	390 × 722 × 752 mm 15.4 × 28.4 × 29.6 in	
Weight (approx.)		8 kg / 18 lb	12 kg / 26 lb	19 kg / 42 lb	8 kg / 18 lb	12 kg / 26 lb	19 kg / 42 lb	

∗i Multi-interval: The lighter the target object, the finer the readability.

∗ii 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.

Options

HVW-02BCWP	USB interface (bi-directional, type mini-B)
HVW-03CWP	RS-232C interface (terminal block)
HVW-04CWP	Comparator relay output/buzzer interface
HVW-13	Large roller conveyer (for the 100 to 200 kg capacity models)
HVW-14	Medium-size roller conveyer (for the 60 kg capacity models)

Accessories

AD-1612	Comparator buzzer
AD-8127	Compact printer
AD-8526	Serial/Ethernet converter
AD-8922A	Remote controller
AX-KO3285-320	RS-232C cable for PC and AD-8127 (D-Sub 9P, 3 m)
AX-043005266	Display unit holder

Optional

External Calibration | LCD Backlight | GLP Compliant | Counting Function | Accumulation Function | Comparator Function | Auto Power ON | Auto Power OFF | Universal Flexi Coms | IP65 | Software | USB Interface | RS-232C Interface