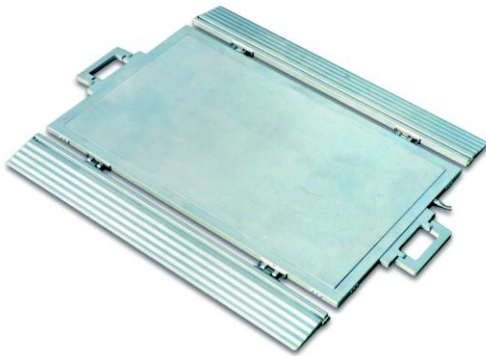


# Wheel- and axle load platform scale

## Characteristics

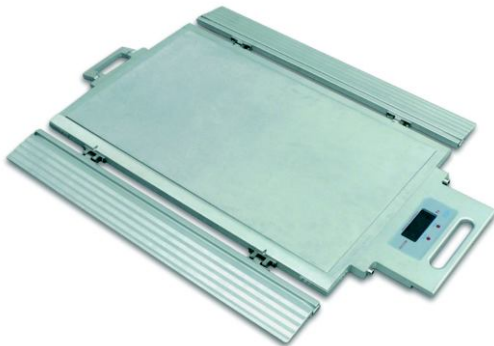
Type: WAP



Ranges: 10 t / 20 t / 40 t  
 Output: 1 mV/V  $\pm 0,1$   
 Voltage supply: 5...15 V DC  
 Combined error: 0,1...0,5 % FS  
 Dynamic error: 1,5...5% FS  
 Corner error: 0,2% FS  
 Degree of protection: IP66  
 Material: aluminium alloy / steel  
 Connection: 10 m cable  
 Operating temperature: -20...+80 °C  
 Overload: 150% FS

## Dimensions

Type: WAP-D



Ranges: 10 t / 20 t / 40 t  
 Display: 5 digits LCD display  
 Combined error: 0,5 % FS / 5 kg  
 Dynamic error: 1,5...5% FS  
 Corner error: 0,2% FS  
 Degree of protection: IP66  
 Material: aluminium alloy / steel  
 Display supply: 6 V accumulator  
 Operating temperature: -20...+60 °C  
 Overload: 120% FS

## Technical data

### Input

Capacity: 10 / 20 / 40 t  
 Insolation resistance: >5000 Mohms at 100 VDC  
 Overload: WAP: 150% of end scale value  
 WAP-D: 120% of end scale value

### Output

WAP: Rated output: 1,0 mV/V  $\pm 0,1$   
 Output resistance: 700 ohms  $\pm 5$   
 WAP-D: LCD-Display, 5 digits  
 switch: ON/OFF, CLEAR ZERO

### Accuracy

WAP: statically: 0,1...0,5% FS  
 dynamically: 1,5% FS (1...5 km/h)  
 dynamically: 3..5% FS (5...10 km/h)  
 corner error: 0,2% FS  
 WAP-D: statically: 5 kg / 0,5% FS  
 dynamically: 5% FS (1...10 km/h)  
 corner error: 0,2% FS

### Supply

Recommended excitation: WAP: 5...15 V DC  
 Voltage supply: WAP-D: 6 VDV (accumulator)

### Ambient conditions

Operating temperature: WAP: -20...+80 °C  
 WAP-D: -20...+60 °C

### Mechnics

Material: platform: aluminium alloy anodized  
 framing: steel gavanized  
 ramp: aluminium alloy anodized  
 Dimensions: see table page 2  
 Weight: WAP: 20 kg  
 WAP-D: 24 kg  
 Degree of protection: IP 66  
 Surface quality: <5 mm within 4 m<sup>2</sup> (ground)  
 Connection: WAP: 10 m cable, 4-wire, shielded  
 WAP-D: without

## Applications

For use in transport applications to measure wheel load, axle load and the total weight of a vehicle in motion. With it's low overall height the platform is easy to handle.



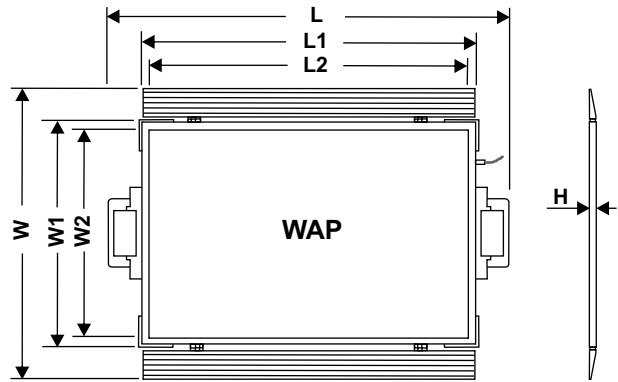
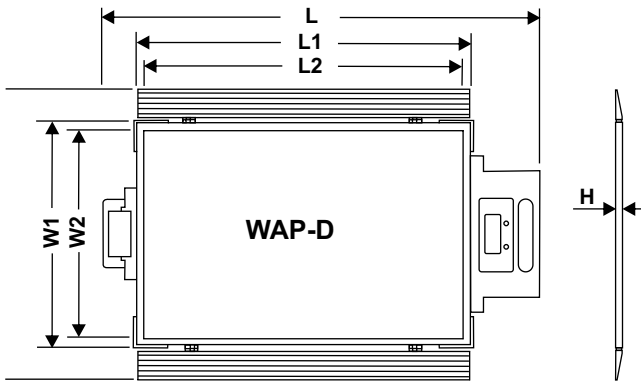
Photos: www.pixelio.de

Ordering Code

W A X X X X X X - X X X

|                      |   |   |
|----------------------|---|---|
| Type:                | WAP 10 t                                    | 0 |
|                      | WAP 20 t                                    | 1 |
|                      | WAP 40 t                                    | 2 |
|                      | WAP-D 10 t with display                     | 3 |
|                      | WAP-D 20 t with display                     | 4 |
|                      | WAP-D 40 t with display                     | 5 |
| Material:            | aluminium alloy anodized / steel galvanized | 0 |
| Protection:          | IP 66                                       | 0 |
| Other / accessories: | on request                                  | 0 |

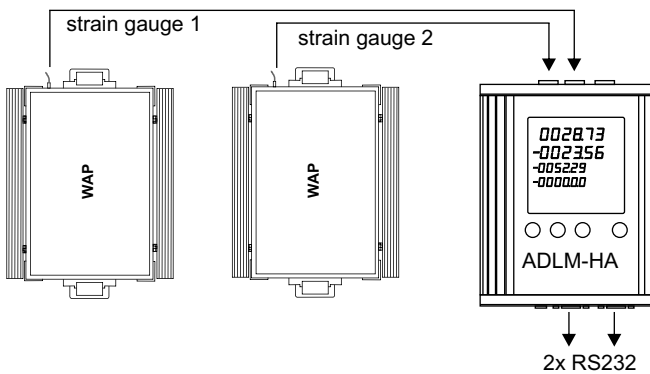
Dimensions (in mm)



| Capacity | L2  | L1  | L    | W2  | W1  | W   | H    |
|----------|-----|-----|------|-----|-----|-----|------|
| 10 t     | 714 | 765 | 1008 | 419 | 482 | 736 | 25,5 |
| 20 t     | 714 | 765 | 1008 | 419 | 482 | 736 | 25,5 |
| 40 t     | 899 | 952 | 1190 | 499 | 550 | 816 | 25,5 |

| Capacity | L2  | L1  | L    | W2  | W1  | W   | H    |
|----------|-----|-----|------|-----|-----|-----|------|
| 10 t     | 714 | 765 | 911  | 419 | 468 | 722 | 18   |
| 20 t     | 714 | 765 | 911  | 419 | 468 | 722 | 18   |
| 40 t     | 898 | 950 | 1098 | 499 | 550 | 804 | 21,5 |

Example measuring system



- Equipment: 2x WAP  
1x ADLM-HA (strain gauge amplifier)
- Indication: wheel and axle load  
summing-up function (axis)  
axis counting, caculation,  
net load vehicle, axis counting,  
total weight of systems in motion
- Interface: 2x RS232