


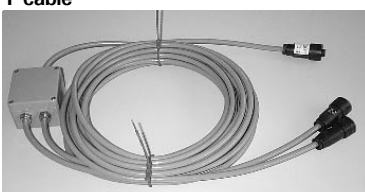





Accessories


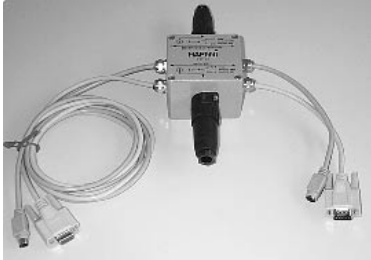
Cabling

The standard connector is of a rugged design from the manufacturer Amphenol (Series C16-1/7pin) or Binder (Series 693/7pin). Instruments are equipped with male connectors, cables with few exceptions on both sides with female connectors. The cable is a heavy duty shielded 9mm type except for adapter cables, which generally are not lying on the road side.

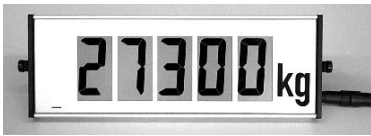

Item	Description	Ordering No.
Connecting cable, universal 	Connecting cable, female-female, universal 5 m Connecting cable, female-female, universal 10 m Connecting cable, female-female, universal 20 m Application: For connecting two scales WL 103 forming an axle weigher. Between connecting boxes. From connecting box to processing unit.	E 6904.0 E 6904.1 E 6904.2
Extension cable 	Extension cable, male-female, 5 m	E 6912.0
Connecting Box 	Application: The connecting boxes are used for operating 2 to 12 scales WL 103 with the processing unit EC 100 or the processing software EC 200. For one scale a type 0 is needed for all other scales a type 1 each. Refer also to the data sheets EC 100 and EC 200. The connecting box type 2 is used for powering the components of the system with external DC 12 V. It can be inserted anywhere in the cabling.	Type 0: E 7108.0 Type 1: E 7108.1 Type 2: E 7108.2
Y cable 	Specially made for a system consisting of two scales WL 103 and a processing unit. Replaces two connecting cables, one box type 0 und one box type 1. Same as above but switches the two connected wheel load scales into an axle load scale	E 6917.0 E 6917.1
Connecting cable RS 232 	For downloading weighing results from EC 100 or EC 110 to a PC and for configuring the EC 100 / EC 110. The PC communication software EC DATA is included. 2 m For connecting a PC directly to a box type 1. Replaces a universal cable and a connecting cable E 6916. 5 m For transition from the HAENNI cable system to a PC with EC 200 processing software 2 m 5 m	E 6913.0 E 6913.1 E 6916.0 E 6916.1
Mains Adapter 	Application: For charging one scale WL 103. For charging two scales WL 103 using a connecting box type 2 and a y-cable (or equivalent). For charging the processing unit EC 110. Technical Data: Input: AC 100V...240V. Output: DC 12V/1,25A.	Plug: Euro: E 7090.0 UK: E 7090.1 Australian: E 7090.2 US: E 7090.3
Charging cable 	Connecting cable 12V with plug ISO 4165 for car cigarette lighter 5 m Connecting cable 12V without plug 5 m	E 6905.0 E 6907.0

Accessories

Interface and switch box for WL 110

Item	Description	Ordering No.
Interface box 	<p>Converts the load signal of two dynamic wheel load sensors WL 110 into RS232 for further processing using the EC 200 software.</p> <p>The interface as well as the connected sensors are powered by the personal computer's mouse port.</p> <p>Technical Data: Power supply: mouse port of the personal computer Power consumption: 90 mA @ DC 5V Protection: Watertight IP 54 Temperature range: -20... +60 °C</p>	E 9008.0
Switch box 	<p>For switching on alarm devices and/or traffic lights in conjunction with the EC 200 software. The box is connected to the same RS232 port which is used for the interface box. The two relays are controlled by the EC 200.</p> <p>One is switched in the case of overweight, the other after the weighing is completed in order to separate the queued vehicles by a traffic light. Two connectors with screw contacts are included.</p> <p>Technical Data: Power supply: mouse port of the personal computer Power consumption: 120mA @ DC 5V in switched state. Protection: Watertight IP 65 Temperature range: -20... +60 °C</p>	E 9016.0

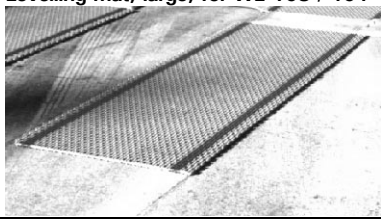
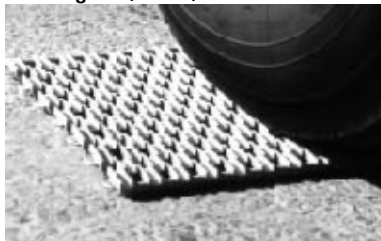
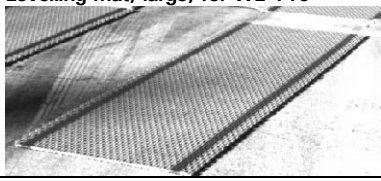

Remote displays

Item	Description	Ordering No.
Long distance display 	<p>To be used in conjunction with the processing software EC 200. The display is powered by DC 12V from the mains adapter E 7090 or from any other 12 V source using a cable E 6905.0 or E 6907.0 and a connecting box type 2 E 7108.2</p> <p>Technical Data: Characters: 100 mm LCD Size: 0.52 m wide, 0.18 m high, 40 mm deep. Weight: 3.5 kg Materials: Aluminium alloy, waterproof</p>	D 12590.0
Remote display for 2 WL 103 	<p>Remote display for two WL 103. The display is powered by 12V DC from the mains adapter E 7090 or from any other 12 V source using a cable E 6905.0 or E 6907.0. The scales connected are charged via the display.</p> <p>Technical Data: Characters: 8 mm LCD Size: 175 mm wide, 80 mm high, 60 mm deep. Weight: 0.7 kg Materials: Aluminium alloy, waterproof</p>	E 9013.0

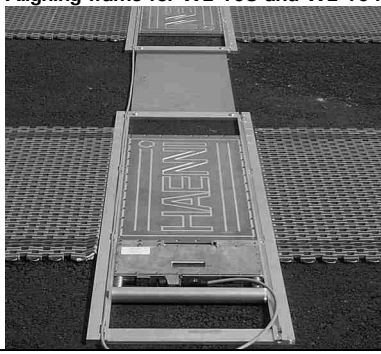

Accessories

Levelling mats

The purpose of levelling mats is to lift the non weighed axles to the level of the scale platform. This is necessary to reduce errors due to shift of the center of gravity and to load shift within double and triple axle systems. It is absolutely necessary for dynamic weighing of any kind of vehicles. For more details refer to the technical paper P 1196.

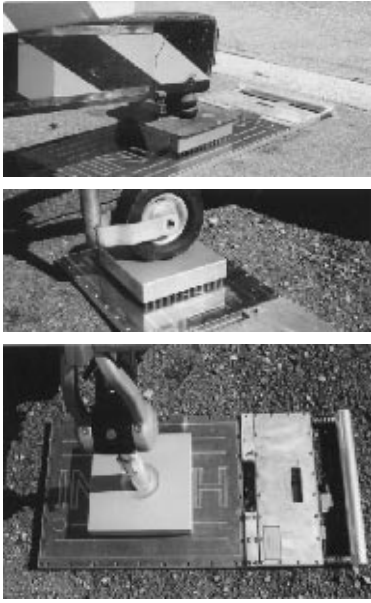

Item	Description	Ordering No.
 <p>Levelling mat, large, for WL 103 / 101</p>	<p>For static scales with 17 mm platform height. The main application is to weigh a large number of vehicles in a short time. Usually electronic scales (WL 103) with a processing unit are used in this case.</p> <p>Technical Data: Size: 2.8 m long. 0.9 m wide, 17 mm high. Other lengths available on request Weight: 16 kg, Materials: Polypropylene and stainless steel</p>	D 12535.0
 <p>Levelling mat, small, for WL 101 / 103</p>	<p>For static scales with 17 mm platform height. The main application of the small mat is to weigh individual vehicles at any place with a minimum of equipment. Two scales and four mats easily fit into the trunk of a car.</p> <p>Technical Data: Size: 0.4 m long. 0.75 m wide 17 mm high. Weight: 2 kg Materials: Polypropylene and stainless steel</p>	D 12540.0
 <p>Levelling mat, large, for WL 110</p>	<p>For dynamic scales with 11 mm platform height (WL 110).</p> <p>Technical Data: Size: 2.8 m long. 0.9 m wide, 11 mm high. Weight: 12 kg Materials: Polypropylene and stainless steel</p>	D 12536.0
 <p>Leveller joiner</p>	<p>For linking two or more long 17 mm mats in order to level out the full vehicle length.</p>	D 12528.0

Frames

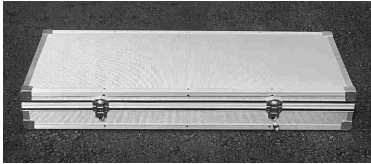
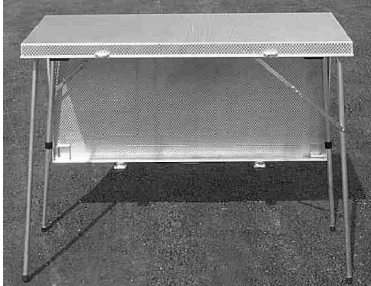
Item	Description	Ordering No.
 <p>Aligning frame for WL 103 and WL 101</p>	<p>The purpose is to align two scales and four long levelling mats. It also facilitates shifting the scales laterally in order to adapt to the track width of the vehicle. The frame is equipped with a groove for the connecting cable.</p> <p>The aligning frame consist of two frames and one connecting plate.</p> <p>Technical Data: Size: 3.5 m long. 0.5 m wide, 15 mm high. Weight: 16 kg Materials: Aluminium alloy, corrosion resistant</p>	D 11965.1
 <p>Mounting Frame</p>	<p>The mounting frame is used for lowering two scales into the pavement. In this case no levelling mats are required because the scale surface is flush to the pavement. This semi-permanent installation is advantageous if the weighing is always performed at the same location. The frame is equipped with a groove for the connecting cable. For the proper installation HAENNI provides the corresponding tools.</p> <p>Technical Data: Size: 3.6 m long. 0.5 m wide, 50 mm high. (for WL 101 / WL 103) 3.6 m long. 0.6 m wide, 50 mm high. (for WL 110) Weight: 32 kg (for WL 101 / WL 103), 34 kg (for WL 110) Materials: Aluminium alloy, corrosion resistant</p>	<p>for WL 103 / WL 101 D 12597.0</p> <p>for WL 110 D 12597.20</p>

Accessories

Force Distributing Plates (pads)

Item	Description	Ordering No.																						
<p>Pad for weighing point loads</p> 	<p>Using this pad point loads can also be weighed on low profile scales. It enlarges their field of application as follows:</p> <ul style="list-style-type: none"> - Weighing the load of hydraulic supports of crane, fire brigade and other special vehicles. - Weighing the load of hard rubber auxiliary wheels of trailers. - Weighing of rigid items such as containers and machines. <p>Even more applications are possible if fitted with the additional telescope support:</p> <ul style="list-style-type: none"> - Weighing the down force of trailer couplings. <p>Technical Data: Due to the limitation of the load per surface and the capacity of the scale used, the following maximum loads have to be respected:</p> <table border="1"> <thead> <tr> <th>range</th> <th>scale</th> <th>max. load</th> <th>limited by</th> </tr> </thead> <tbody> <tr> <td>2t</td> <td>WL 103</td> <td>2000 kg</td> <td>capacity of the scale</td> </tr> <tr> <td rowspan="2">10t</td> <td>WL 101</td> <td>6500 kg</td> <td>max. load per surface</td> </tr> <tr> <td>WL 103</td> <td>6500 kg</td> <td>max. load per surface</td> </tr> <tr> <td rowspan="2">15t</td> <td>WL 101</td> <td>8500 kg</td> <td>max. load per surface</td> </tr> <tr> <td>WL 103</td> <td>8500 kg</td> <td>max. load per surface</td> </tr> </tbody> </table> <p>Size: 0.24 m long, 0.24 m wide, 65 mm high, 290...480 mm with support Weight: 8 kg, with telescope support: 9.5 kg Materials: Aluminium alloy, rubber</p>	range	scale	max. load	limited by	2t	WL 103	2000 kg	capacity of the scale	10t	WL 101	6500 kg	max. load per surface	WL 103	6500 kg	max. load per surface	15t	WL 101	8500 kg	max. load per surface	WL 103	8500 kg	max. load per surface	<p>Pad only: D 12590.0</p> <p>Pad with telescope support: D 12590.1</p>
range	scale	max. load	limited by																					
2t	WL 103	2000 kg	capacity of the scale																					
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<p>Hydraulic pad for testing</p> 	<p>If low profile scales are tested the force applied must act the same way as an air filled rubber tyre does. The best simulation is achieved by using the hydraulic force plate. The liquid filling between the metal plate and the rubber diaphragm reacts exactly the same way, as the inflated air of a tyre does, but without elasticity, which would influence the test in a negative way. Thanks to the much smaller compressibility of the liquid compared with air, all temperature effects can be avoided, so that the applied load stabilises in a short time. For more details refer to the technical paper P1133.</p> <p>Technical Data: Size: 0.46 m long, 0.24 m wide, 45 mm high, 190 mm gauge included. Weight: 13 kg Materials: Aluminium alloy, rubber, glycerine</p>	<p>W 12497.0</p>																						

Carrying Cases

Item	Description	Ordering No.
<p>Carrying case for WL 101 and WL 103</p> 	<p>Two scales fit into this case. The handles on both sides are placed in a way that the case must be carried by two persons in order to comply with health regulations.</p> <p>Technical Data: Size: 1.1 m long, 0.47 m wide, 142 .mm high. Weight: 7 kg Materials: Aluminium-wood compound</p>	<p>D 12613.0</p>
<p>Carrying case for WL 110</p> 	<p>One scale fits into this case. The handle is placed on the lateral side. Unfoldable legs are integrated so that the case doubles as a road side table.</p> <p>Technical Data: Size: 1.04 m long, 0.53 m wide, 94 mm high Weight: 12 kg Material: Aluminium</p>	<p>D 12530.0</p>