Processing unit EC 110

Application Processing unit for dynamic wheel

load sensor WL 110 and for static wheel load scales WL 103 for measuring axle loads as well as gross weights of vehicles.

Input 2 dynamic wheel load sensors.

2 static wheel load scales.

Battery charger.

Zeroing Zero setting by key stroke.

Measurement Manual or automatic operation,

static or dynamic weighing.

Calculation of overweights Editable limits for 50 vehicle types

or limits for axles and axle groups

Storing and printout Upon key stroke the weighing

results are stored and transmitted

to the printer port.

Storing Capability 2000 vehicles.

Display 4 lines 20 characters dot matrix

Key pad 10 alpha numeric keys (cell phone

scheme) 6 function keys.

Data in- and output Parallel port for printer and serial

port RS 232 C for data exchange with a personal computer.

Setup and configuration Setup mode using the key pad and

the display. Download of limits, text lines and software up-dates from a

PC.

Power Supply Integrated rechargeable batteries,

feeding also the dynamic sensors WL 110. Static scales WL 103 are operating on their own batteries

Power saving Auto shut off after 10 minutes of

idle operation.



Autonomy 24h. The remaining operating time

is indicated on the display.

Charging DC 12V from car battery or mains

adapter.

Housing Portable housing. Water and dust

proof IP 54 (DIN 40050, IEC 144)

Weight 3 kg

Scope of supply 1 processing unit EC 110

1 mains adapter

1 download software for

WINDOWS™ 1 RS 232 cable

1 operating manual1 short form manual

1 carry bag

Selection Chart

Accessories

EC 110 / 1 5 9 . 2 1 1 / 00	Y/2142	
internal Batteries 1 5 9		
Axle by Axle, max. 24 2		
English 1 1		
Automatic selection of meas. range 00Y		
USA, Canada	2142	
UK	2143	
Australia	2145	
Europe	2144	
	Axle by Axle, max. 24 2 English 1 1 Automatic selection of meas. range USA, Canada UK Australia	

	Designation	Ordering No.
Ī	Connecting cable 5m for WL 110	E 6904.0
	Connecting cable 10m for WL 110	E 6904.1
	Y- connecting cable for 2 WL 103	E 6917.0
	Adapter cable 12V for cigarette lighter	E 6905.0

Design and Function

The processing unit EC 110 is designed for processing the results of the dynamic sensors WL 110 as well as of the static scales WL 103. It continuously receives the weight signals from the connected scales. In the manual mode the measurement starts and ends by key stroke. The automatic mode is limited to dynamic sensors only. Two scales are used for weighing both sides of the vehicle in an axle by axle mode. The overweight calculation is either based on free editable axle and axle group limits or on vehicle types. In the automatic mode only the axle limits are used. The EC 110 automatically detects single axles, axle groups and the gross weight of the vehicle. All stored measurements — up to 2000 vehicles — may be transferred to a personal computer via the serial port using the comfortable WINDOWS based download software. The data can be converted to any spread sheet program format. This software is also used to edit the vehicle types and the axle limits as well as the text lines to be printed with the weighing protocol. Even a up-date of the instruments firmware is possible. The four line dot-matrix display shows the axle weights and the gross weight and guides the user through the various setup menus. The results are also sent to the parallel port for being printed out using any type of printer.

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Example of the printout

Shortest possible protocol for optional roll feed printer

MEASUREMENT NO.: 17

DATE: 2000-02-28

TIME: 14:15:54

MEASURED WEIGHTS:

AXLE 1 3350 kg

AXLE 2 4900 kg

AXLE 3 7600 kg

GROSS 15850 kg

Maximum protocol

HAENNI INSTRUMENTS INC. MEASUREMENT NO.: 17

DATE: 2000-02-28 TIME: 14:15:54

AUTOMATIC MODE

SENS1 SENS2 EC 110 SER: 1837 1509 2001 CAL: 7020 7023 EU01.0a

LOCATION:

DRIVERS SIGNATURE:

OFFICERS SIGNATURE:

USED LIMIT:

T2S3

MEASURED WEIGHTS:

AXLE WHEEL 1 WHEEL 2 1 1650 kg 1700 kg 2 2550 kg 2350 kg 3 3750 kg 3850 kg

AXLE 1 3350 kg
AXLE 2 4900 kg
AXLE 3 7600 kg

GROSS 15850 kg

OVERWEIGHTS:

TOL. DEDUC. PER SCALE: RELATIVE 2% ABSOLUTE 100 kg

ADSOLIOIE 100 K

AXLE(S): 1

200 kg

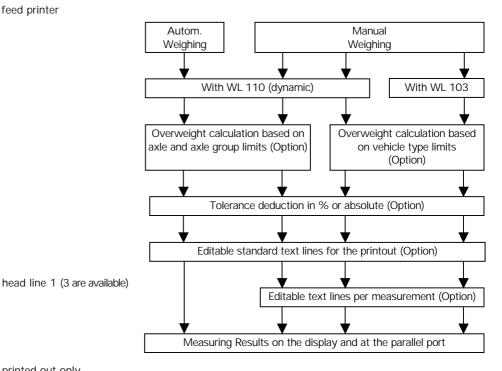
AXLE(S): 3

350 kg

GROSS:

250 kg

Options



printed out only if WL 110 are used

additional text lines (6 are available)

followed by an empty line to be filled in manually or

using the key pad

printed out only if 'overweight option' is set

printed out only if 'wheel weight option'

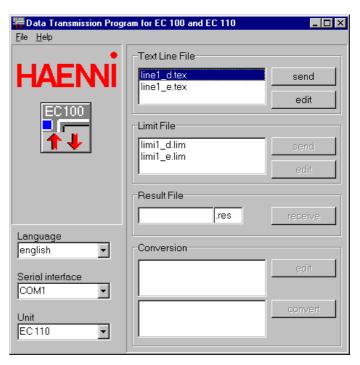
only if the 'overweight' option and the 'tolerance deduction' options

are set

'none' is printed if no overweight is detected

Setup software for WINDOWS™

Main screen of the download software ECdata



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