Ap	plic	ation

Application	measuring wheel and axle loads as well as total weights of vehicles and airplanes	
Input	112 wheel load scales	
Zero Taring	Zero check by key stroke in unloaded condition of the scales	
Measurement	By key stroke with the vehicle on the scales	
Calculation of overweights	Editable limits for 100 types of vehicles	1
Tare and Net Weight	Possibility of tare weight input. Net weight calculation and printout	
Recording	By key stroke to store the results in the RAM and to operate the built in printer	A.C.
Storing Capability	300 vehicles	
Data in- and output	RS 232 C for scales and for data exchange with personal computer	-
Printout	Various forms, according to the option setting. Nine editable text lines	
Power Supply	DC: 12V AC: 230V, 115V Optional with integrated rechargeable batteries for 24h operation	Weight
Housing	Portable housing. Water and dust proof IP 54 (DIN 40050, IEC 144)	Scope of supply

Processing unit for wheel load scales for



7 kg 9 kg with integrated batteries

- 1 processing unit EC100
- 1 mains cable
- 1 battery cable
- 1 operating manual 1 short form manual
- I SHOIL IOITTI Mariual

Accessories

Refer to W9.100

Selection Chart

Ordering example:	EC 100	/281	.321	/ 00Y /2	2141
Power supply	ex- and internal	271			
	external only	281			
Language	English		311		
	German		321		
	Spanish		331		
	French		341		
Measuring range	Automatic selection of meas. range 00Y		00Y		
Power cord	SEV (Switzerland)			2	2140
	VDE/UTE (Germany, France)			2141	
	NEMA (USA, Canada)			2142	
	BS (United Kingdom)			2	2143
	universal, without plug			2	2149

Design and Function

The processing unit EC 100 is continuously receiving the weights from the connected scales through the serial interface. If operated from a external power source it is charging the internal batteries as well as the batteries of the connected scales. The weights are stored and printed out by key stroke. The LCD's function is to guide the user through the program, as well as to show the actual weights. All stored data may be transferred to a personal computer for further processing. The editing of the text lines and the stored limits may be performed either using the keyboard or by file transfer from a personal computer.

Consumables

42	Designation		Ordering No.	
43	Printing ribbon	for paper 58 mm	E 15400.2	
49	Paper roll	58mm width	A 8161.0	

Technical Data

Parameter		Value
External supply	DC	10.816 ¹⁾
	AC	230V, 115V /+10%, -15%
Internal power supply, 8 NiCd batteries	Operating time	24h
	Charging time	4h
Interface	Data exchange	RS 232C
	Supply for scales with current limitting	>5.5A
Power consumption	Without printing	<4W
	While printing	<8W
	Additionel per scale	<6W
Printer	Paper width	58mm
	Line spacing	3.6mm
	Characters per line	24
	Printing speed	1.6 lines/s
Display	Туре	LCD dot matrix
	No of characters	16
	Height of characters	8mm
Keyboard	Туре	membrane touch
	Number of keys	24
Temperature range	In operation	-550℃
	Storage	-2560°C
Permissible relative humidity		<98%
Type of protection (closed cover)		IP 54 (DIN 50040, IEC 144)
Weight		7kg
	with integrated batteries	9kg
Dimensions	(WxHxD)	510mm x 190mm x 290mm

1) The complete charging of the batteries of the scales is not guaranteed with an input voltage lower than 12V

Options

The working mode of the EC100 is set by the following options

Option	Mode
no options set	Option 3 will be set automatically
Option 1	Printout of measurement Number
Option 2	Printout of wheel loads
Option 3	Printout of axle loads
Option 4	Overweights are calculated with tolerance deduction
Option 5	Calculation and printout of overweights
Option 6	Tare weight input
Option 7	Printout compulsory
Option 8	Storing of previous measurements
Option 9	Measurement in one operation (same Number of scales as wheels)
Option 10	Measurement of only one side of the vehicle (The wheel loads are multiplied by two)
Option 11	The menu for editing the printout text lines is enabled
Option 12	The menu for editing the limits is enabled
Option 13	The menu for editing the measuring results is enabled

Examples of Protocols

1. Short protocol for axle weighing only (option 3, without sub totals)

DATE: TIME:	APR 18 95 14:15
WEIGHTS: AXLE 1 AXLE 2	3350 kg 4900 kg
GROSS	8250 kg

2. Short protocol for wheel weighing only (option 2, without sub totals)

APR 18 95

14:15

1650 kg

1700 kg

2550 kg

5900 kg

DATE:

TIME:

WHEEL

WHEEL

GROSS

Editable text lines

Programmable limit sets

WEIGHTS: WHEEL 1

2

3

3. Complete protocol (options 1, 2, 3, 4, 5 and 6 set)

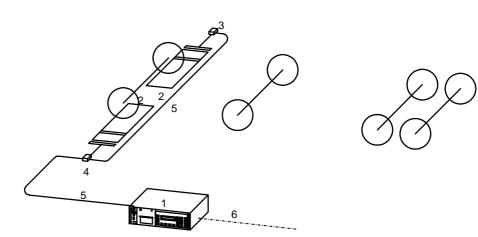
HAENNI INSTRUMENTS INC MEASUREMENT NO.:	3
DATE: APR 18 9 TIME: 14:1	
LOCATION:	
DRIVERS SIGNATURE:	
OFFICERS SIGNATURE:	
USED LIMIT: TRUCK TYPE Q (3 AXLES)	
TOL. DEDUCT. PER SCALE: 0- 2500 kg: 75 k 2550-10000 kg: 125 k >10000 kg 175 k	g
WEIGHTS: WHEEL 1 1650 k WHEEL 2 1700 k WHEEL 3 2550 k WHEEL 4 2350 k	g
AXLE 1 3350 k AXLE 2 4900 k	g
SUBTOTAL 1 8250 k	g
WHEEL 5 3750 k WHEEL 6 3850 k	g
AXLE 3 7600 k	g
GROSS15850 kTARE5500 kNET10350 k	
OVERWEIGHTS: (WITH TOL. DEDUCT.) AXLE: 1	
200 k AXLE: 3	g
350 k AXLE: 1,2,3	
250 k	g

4. Printout of the stored limit sets

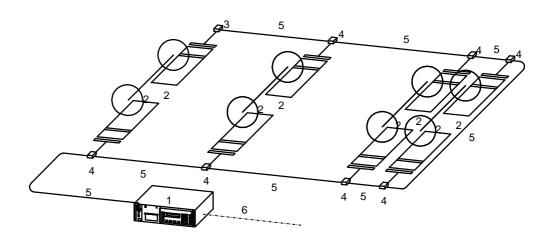
01 TRUCK TYPE A 100000000000 010000000000 110000000000	5000 11000
02 TRUCK TYPE B 100000000000 01000000000 001000000000 111000000	5000 11000 10000
03 TRUCK TYPE D 10000000000 01000000000 00100000000 0001000000	
23 TRUCK TYPE Q 10000000000 01000000000 00100000000 111000000	(3 AXLES) 3000 5000 7000 15000

Examples of applications

1. With two scales only, a vehicle can be measured axle by axle.



- With more than one pair of scales axle groups can be measured in one operation. 2.
- 3 5 4 5 4 5 6 ĭ
- With more than one pair of scales a vehicle can be measured in one operation. The Number of axles to be measured at the same time is limited to 6. 3.



- 1: 2:3:4:5:6: 6:
- EC 100 Wheel load scale Connecting box type 0 Connecting box type 1 Connecting cable (5m resp. 10m) Connecting cable RS 232 to a personal computer

Application No. 1: Instead of using two connecting boxes and two cables, one connecting cable type Y may be used.