Truck-scale and platform scale Indicator

IDe 500

CE

- ◆ The new **IDe 500** indicator is a tool with a management of double weighing mode (Weigh in/ Weigh out), user friendly and very powerful. It was speccially studied to respond to a fan of situations in the weighing operations on weigh bridges and platforms.

- ◆ It is usable in a desktop environnement and allows a fast seizure for the operators working on intensive weighing systems

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> Compatible with all strain gauge weighing load cells on the market and **Master-K** digital load cells.

> Excellent precision and stability of measurement.
>   - **IDe 500** is **CE** approved for 6000 scale divisions.
>   - Can be used in dual-range operation (e.g. 50 t/20 kg and 30 t/10 kg)

> Simple and intuitive operator face.
>   - Application parameters setting by PC keyboard.
>   - Graphic display with Backlight (240 x 64 dots). Very good visibility.
>   - 4 control keys + pseudo mouse.

> Data storage device (DSD) allow's operations' trea cability and allows storing up to 28 000 records.

> Standard peripheral device management:
>   - COM 1 : serial output RS 232 or RS 485 (selectable).
>   - COM2 : 1 passive current loop output for RP75 remote display
>   - 1 LPT output for parallel printer.
>   - 1 USB port to transfer weighing log to PC.

> Fully immunized against computer viruses.

> Standard layout or configurable tickets.

> Options :
>   - 4I/4O for the traffic lights and the barriers in 2 way passage.
>   - Memory extension module (1Million records).

Operation

Weighing type : The IDe 500 manages 4 weighing modes:

Weigh in / weigh out system : data entry can be user-defined during input weighing, output weighing or both.

During output weighing, the net weight is calculated and the ticket printed.

Gross/Tare/Net weighing with tare entry by the operator.

Gross/Tare/Net weighing with a programmable tare in a file.

Gross/Tare/Net weighing with semi-automatic tare function.

Files

The following files can be user-defined with the help of a computer and will be saved in the IDe 500 indicator's memory backed up with a lithium battery.

File no. 1 : (F1) This file, which can be assigned to customers or members, includes 845 records, each with a 6 digits code and a 15 characters name.

File no. 2 : (F2) This file, which can be assigned to products or items, includes 354 records, each with a 6 digits code and a 15 characters name.

File no. 3 : (F3) This file, which can be assigned to transporters or vehicles, includes 254 records, each with a 6 digits code and a 15 characters name.

File no. 4 : (F4) This file, which can be assigned to destination,.. includes 177 records, each with a 6 digits code and a 15 characters name.

File no. 5 : (F5) This file includes 177 records, each with a 6 digits code and a 15 characters name.

Tare file : The tare can be pre-recorded for 400 vehicles and assigned to the vehicles number: 6 digits with a 10 characters name (e.g. vehicle registration number).

The file on site vehicles has a capacity of 44 vehicles.

Simple data

Four-digit data can be user-defined to characterise the transaction.

The operator disposes of 2 numerical references of 6 digits each and of 2 alphanumerical references of 16 characters each.

Printing

The weighing ticket can be user-defined with the following information:

- company name / date / time / weighing no. / file name and simple data – Gross / Tare / Net.
- End-of-ticket message.

Weighing diary, DSD

Only the codes of the files F1, F2, F3 and the simple data n°1 are stored in the DSD.

The diary can contain 28 000 weighings :

Date, Time, n° of vehicle, code F1, F2 et F3, DS1, Gross, Tare and Net

This diary can be printed or exported either by modem or by RS 232 link to a computer. With Windows Hyperterminal, the weighing diary can be edited directly in an Excel worksheet.

Totalizing

8 types of different additions are available:

Simple addition of the file 1 (Total of weighings by customer)

Simple Addition of the file 2 (Total of weighings by product) Example: 1

Simple Addition of the file 3 (Total of weighings by carrier)

Crossed Addition of F1 / F2 (Total weighed by product for every customer) Example: 2

Crossed addition of F1 / F3 (Total weighed by carrier for every customer)

Crossed Addition of F2 / F3 (Total weighed by carrier for every product)

Crossed Addition of F3 / F2 (Total weighed by product for every carrier)

List of weighings sorted out by F1 / F2 containing the following information: customer, product, , DSD no, no. of vehicle, DS1 code and net weight. Example:3

Totalizing

1

```
DATE : 05/12/2005      HEURE : 16.33
PRODUIT
Du : 10 / 06 / 2005  au : 13 / 07 / 2005

:   001   : SABLE BLANC      :    23 500 Kg :
:   001   : GRAVIER 10/20    :     9 920 Kg :
TOTAL :                           32 420 Kg
```
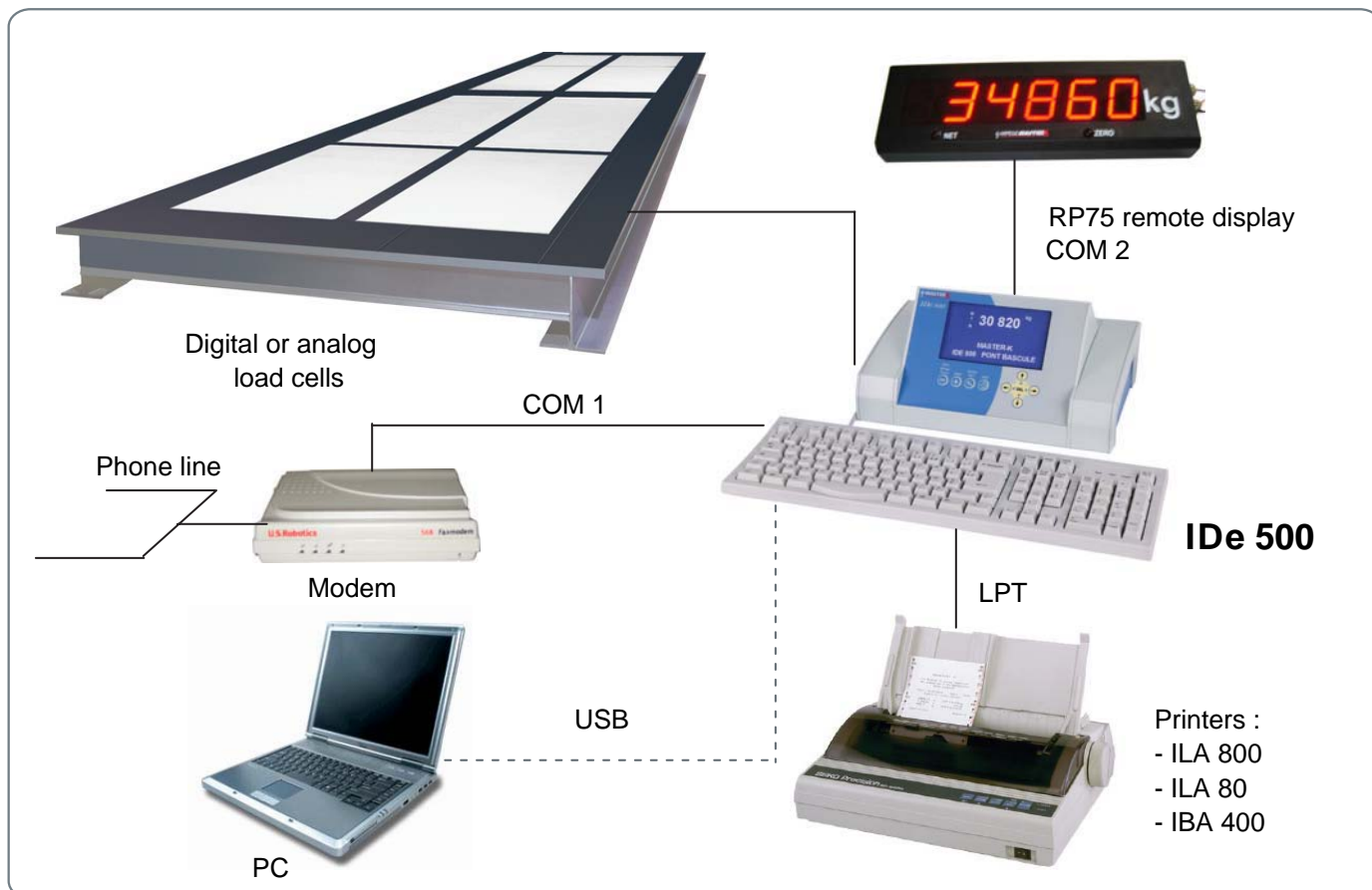
3

```
              00002
            DURAND SA

: PRODUIT        001 SABLE BLANC        :
:No DSD  VEHICULE N   REF. No 1    NET    :
: 000002   1234ZZ69      000000   26 700 Kg:
TOTAL : ...........................  26 700Kg
: PRODUIT        001 SABLE BLANC :
:No DSD  VEHICULE N   REF. No 1     NET    :
: 000004   12338CC42     000001   28 470 Kg:
TOTAL : ...........................   28 470Kg
TOTAL :                          45 170 Kg
```

2

```
DATE : 05/12/2005      HEURE : 16.33
CLIENT / PRODUIT
Du : 10 / 06 / 2005  au : 13 / 07 / 2005

              00001
            DUPONT SA

:   001   : SABLE BLANC      :    33 400 Kg :
:   001   : GRAVIER 10/20    :    28 340 Kg :
TOTAL :                          60 740 Kg
              00002
            DURAND SA

:   001   : SABLE BLANC      :    13 600 Kg :
:   001   : GRAVIER 10/20    :    14 200 Kg :
TOTAL :                          27 800 Kg
```

Block diagram

Digital or analog load cells

34860 kg

RP75 remote display
COM 2

COM 1

Phone line

Modem

IDe 500

LPT

USB

PC

Printers :
- ILA 800
- ILA 80
- IBA 400

Example of a complete Weighing Ticket

Company name →

date / time of the first weighing →

date/time of the weighing →

Weighing no. for the Data Storage Device →

Name of simple data no 1 with Its code and its attributed data. →

Name of data no 3 with its code and its attributed data. →

Name of simple data no 2 with its attributed data. →

Name of simple data no 4 with its attributed data. →

Name of simple data no 6 with its attributed data. →

Gross/Tare/Net weighing →

End of user-defined ticket →

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MASTER-K ARPEGE

38 avenue des Frères Montgolfier
BP 186
69 686 Chassieu Cedex

 DATE : 17/05/2005      HEURE : 09h29
 DATE : 17/05/2005      HEURE : 09h45
  NUMERO DE PESEE : 000004-ES
  NUMERO DU DSD   : 000001
VEHICULE No       :1245ACC69
CLIENT            :000078 GTP Construction
PRODUIT           :   004 Sable fin
TRANSPORTEUR      :   127 Transpomat
Der. Traitement : 110505
Humidité en %     :012.500
Impureté en %     :002.500
Chantier          :Stock GTP
Distance          :45 Km
Opérateur         :E. LEGRAND


  BRUT  :  38060kg

  TARE  :  14440kg

  NET   :  23620kg

Observations:
Signature   :
```

No. (XXXXXX) and type (YY) of weighing:
EF: Input/Output weighing
PF: Tare data weighing
TM: Gross / Tare / Net weighing →

Name of data no 2 with its code and its attributed data →

Name of simple data no 1 with its attributed data. →

Name of simple data no 3 with its attributed data. →

Name of simple data no 5 with its attributed data. →

*It is also possible to have a ticket with less information

Characteristics

characteristics	
Power supply Standard (please indicate it in the order) Option	Mains 110 or 220 VAC –10 +15%, 50-60HZ 12 VDC2 4 VDC
Power consumption EMC performance	20 VA according to standard EN 45 501
Standard load cell power supply Min. load impedance	7.5 V AC square signal 45 ohms or 8x350 ohms load cells in parallel
MasterK smart load cell power supply	12 V =
Operating temperature	-10/+40°C
Storage temperature	-20/+60°C
Timer drift	± 1 min per month
data retention in RAM memory	3 years by lithium battery
Traceability file capacity Optional 64 MB memory extension module	28 000 weighing with date/time/ weighing No./gross/tare/net 1 million weighing
METROLOGICAL CHARACTERISTICS according to Standard EN 45 501	
Max. weighing accuracy Internal resolution Min. approved scale division voltage value	6000 scale divisions 60 000 divisions0.75µV
Measurement rate	10 to 180 measurements per second
EXCLUDING LEGAL METROLOGY	
Max. weighing accuracy Internal resolution	10000 scales divisions 100000 divisions

MASTERK
THE MASTERS OF INDUSTRIAL WEIGHING

SGS SGS SGS SGS IEC IECQ OIML III NTEP Ex IP68 RoHS