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Dan-Transducer

SAI-CK

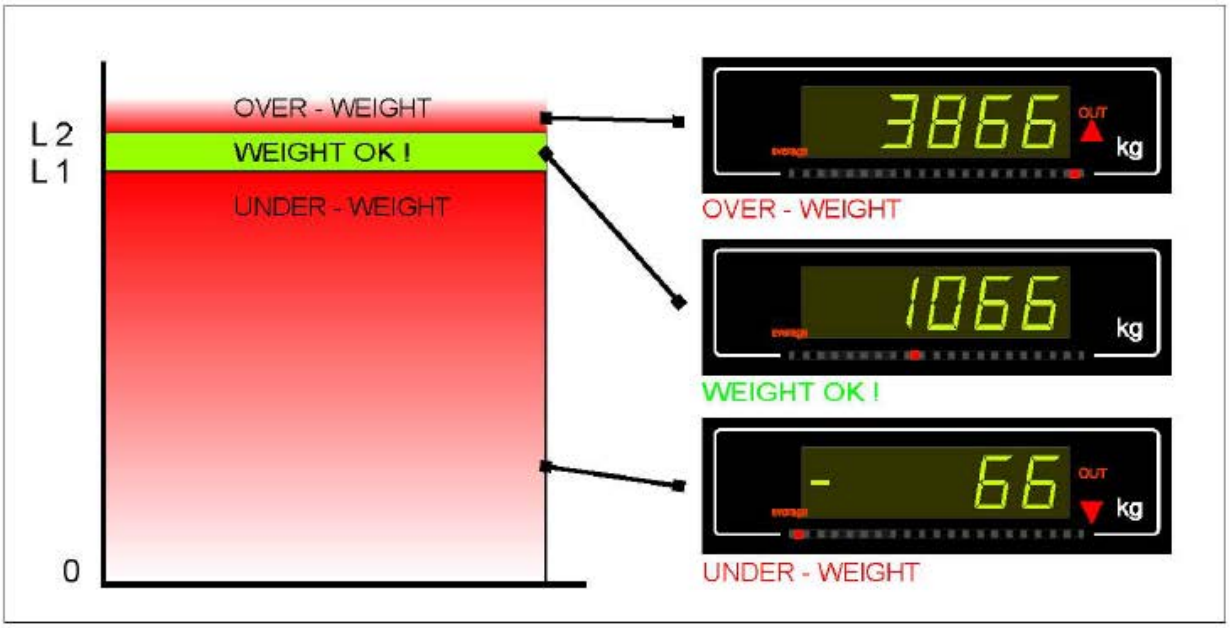
# PENKO


## CHECK WEIGHING INDICATOR TYPE SAI-CK

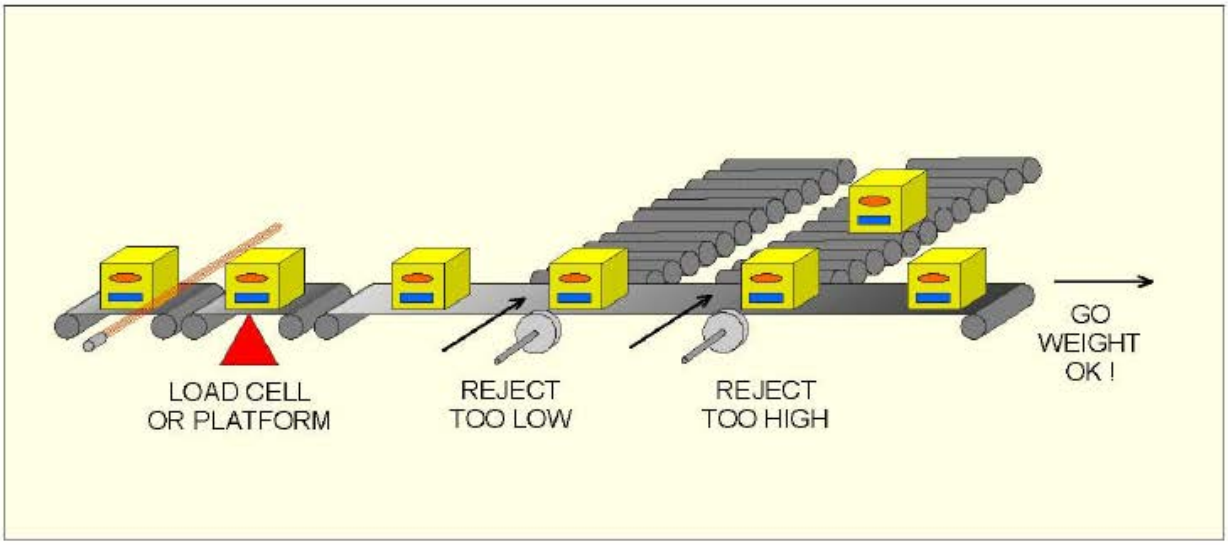
**Certified by NMI : TC 2636, 4000 div. 1d => 1µ V**

- The solution for In-Line checking.
- Very Fast: 250 Weighing samples per second.
- Too High, too Low or Go judgement in milliseconds.
- Display and Led-bar showing results.
- 1 Solid state contact for Too High and 1 for Too Low.
- 1 Input for photocell. Start sequence
- **RS232 interface WITH PRINTER PROTOCOL.**
- Panel mounting ( Other types available ).
- Extruded and machined ALU-housing.

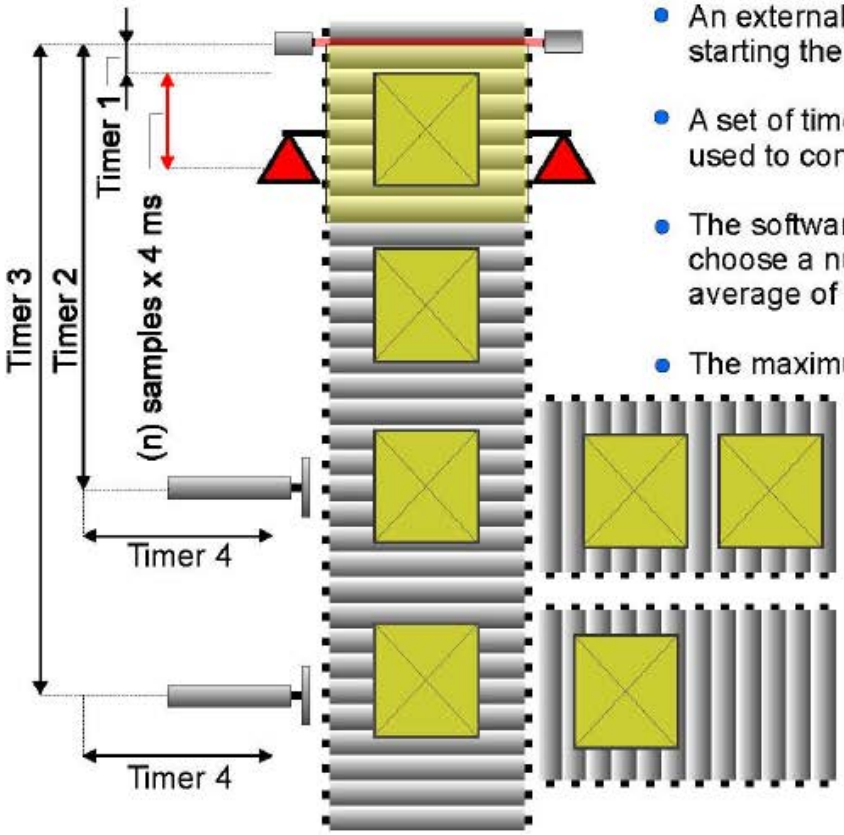
It is easy to get a high quality judgement about the weight of an object. Utilizing advanced weighing technology for extreme quick weighing provides solutions for all kinds of check weighing applications. For you the SAI-CK is the easy solution. Just combine it with a load cell or a platform. Use the checkweighing indicator as a component in your larger application.
Full digital set up and calibration combined with easy installation makes the instrument exactly what you need.




The Indicator shows : Underweight by the arrow point down and a dot on the left side of the led-bar. Overweight by the arrow point up and a dot on the right side of the led-bar.
When the weight is correct we find the dot somewhere in the middle of the led-bar.
The led-bar dimension is scaled to the weight OK-band. These indications are there for maximum 1 second or are instantly refreshed by a new value.



## HOW TO USE IT.




- Set the Hi- and Lo limit direct with the "M" front key.
- An external photoelectric switch is starting the check weighing cycle(s).
- A set of timers set at milliseconds are used to control the reject devices.
- The software provides the possibility to choose a number of samples for the average of the real value.
- The maximum number of items in progress is four. That means that one item is possible between the checking and rejection areas.

## PRINT THE RESULTS.

```
----------------------
PENKO ENGINEERING B.V.
DATE      :  05-09-96
TIME      :     09:15
LO LEVEL  :     0.995 kg
HI LEVEL  :     1.010 kg
TARE  PT  :     0.100 kg
SUBTOT.   :   123.174 kg
AVERAGE   :     1.001 kg
COUNT     :       123
UNDER     :         7
OVER      :         5
    WEIGHING = PROFIT
----------------------
```

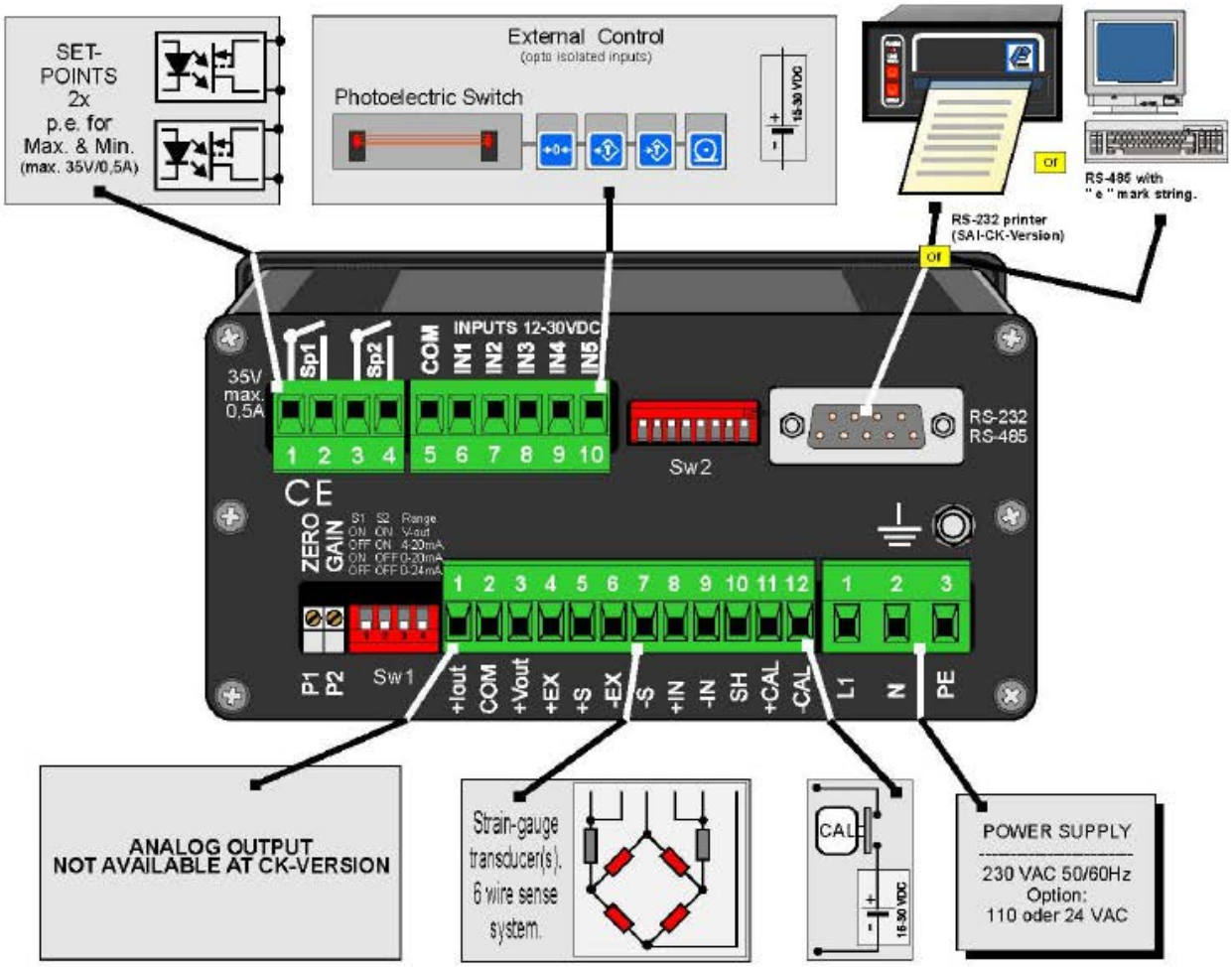
```
----------------------
PENKO ENGINEERING B.V.
DATE      :  05-09-96
TIME      :     09:16
LO LEVEL  :     0.995 kg
HI LEVEL  :     1.010 kg
TARE  PT  :     0.100 kg
TOTAL.    :   123.174 kg
AVERAGE   :     1.001 kg
COUNT     :       123
UNDER     :         7
OVER      :         5
    WEIGHING = PROFIT
----------------------
```

The printout HEADER and FOOTER are programmable.
The installed printer totalises and prints automatically, when the number of items checked exceeds a preset value or 60.000 or the total weight is beyond a value of 9.999.999.
The layout is standard 24 characters wide.

The printout provides you the following items:

- The Date and Time the print was prepared.
- The LOW LEVEL. This level activates the reject mechanism for items with a lower weight.
- The HI LEVEL. This level activates the reject mechanism for items with a higher weight.
- Tare PT= It is the value of the preset tare. The checked weight is now the net weight.
- Subtotal or Total. The subtotal is often used as a progress report. After the job is done we print a total report, by doing this we also set the memories on zero.
- The Average on the printout shows the average of all the accepted packages.
- Under and Over gives us the number of packages rejected with a wrong weight.

An "e"-Mark protocol is on request. This replaces the printer protocol. It can be used for "e-Mark" reporting PC.programs.




## Specifications:

| | |
|---|---|
| Power supply | 230 Vac - 50/60 Hz, +/- 10%, 24Vac or 115 Vac optional. |
| Wiring | full Wheatstone bridge with sense connections. |
| Display | 5 digits 0,56" - 14,2 mm. Ultra Bright. |
| Display speed | 1-10 readings per second. |
| Excitation voltage | 10 V DC, suitable for 1-4 loadcells with a bridge resistance of 350 Ohm. |
| Input range | +/- 23 mV. Verification unit 1 µV/part. |
| Conversion speed | 250 samples/second. |
| Linearity | < 0.006 % FS. |
| Resolution | 1/65,000 counts. ( 16bit internal ) |
| Temperature effect | on zero <= 12 ppm/°C.on span <=10 ppm/°C. |
| Temperature range | -10 - + 50°C. |
| Analog filter | 12 dB./octave e.g.40dB/decade 2,5 Hz. |
| Digital filter | 36 dB/octave e.g. 120dB/decade 10Hz |
| Digital output | Isolated RS 232, 1200/9600 Baud or 4-wire Rs485. |
| Inputs | 5 optical isolated 12-30 V DC. |
| Outputs | 2 solid state outputs 10-35 Vdc or ac max 0.5A. |
| Consumption | 14 Watt, with 4 loadcells- 350 Ohm. |
| Dimensions | 150 x 78 x 180 (depth 250mm at certified version). |
| Weight | appr. 1800 g |
| Certification | TC 2636 (for 4000 div). |