

Very high accuracy digital indicator designed for weighing applications.

**BASIC FEATURES**

- Approved for 10,000 d. OIML
- Up to 70 measurements per second
- Alibi-memory for 10,000 records
- Parallel connection of up to 10 strain gauge load cells (350 Ohms)
- Display resolution up to 99,000div.
- Bright, 6-digit, red LED display (14mm)
- Serial RS-232C port for connection to serial printer, PC or remote display
- 1 digital input (programmable as tilt input or to tare scale remotely or for other purposes)
- 2 digital outputs (programmable as weight set points or as other control outputs)
- Compact, plastic panel mount enclosure (IP40 protection)



INDI-5250

**OPTIONS**

Additional RS-485 or RS-232C serial port with network capability  
 Analogue output (0..20mA, 4..20mA or 0..10V)

**OPERATING FUNCTIONS**

Weight display  
 Zero, Tare, Tare recall, Print, Total  
 Status annunciators for set points  
 Operation and setting via keyboard or serial commands  
 Printouts with weight, totals and error reports

**APPLICATIONS**

Simple weight display  
 Mixing plants  
 Weighing automation systems

**APPROVALS**

EU Type approval for 10,000 divisions (approval Nr.: DK 0199.27)  
 OIML R76

**ACCURACY**

Class III

**DISPLAY – KEYBOARD**

Display	6 digit, 7 segment, LED, red, 14mm digit height
Status annunciators	No motion, zero, tare in use, net, set points in operation
Keyboard	6 key membrane keyboard with tactile feedback
Decimal point setting	Between any digit of the weight display
Display step	1, 2, 5, 10, 20, 50, 100, 200 (set-up selectable)
Weight digits	4, 5, 6 (set-up selectable)

**A/D CONVERTER**

Type	Sigma-Delta ratiometric with analogue and digital filtering (FIR & post filtering, rolling average)
Conversion rate	3 up to 70 measurements per second (set-up selectable)
Sensitivity	0.4µV/V for approved scales, 0.1µV/V for non-approved scales
Analogue signal range	-0.25 to 2mV/V (-1.25mV to -10mV) or -0.25 to 4mV/V (-1.25mV to -20mV)
Resolution	Internal 550,000 counts, Display : 99,000 dd (selectable, in accordance with regulations)

**LINEARITY & STABILITY**

Linearity	Within 0.002 % of full scale
Long term stability	0.005 % of full scale per year
Temperature coef.	Dead load ≤ 2ppm / °C, Span ≤ 2ppm / °C

## CALIBRATION AND WEIGHING FUNCTIONS

Calibration	Digital calibration (dead load and span) and scale parameterization via keyboard dialogue menu. The weight display can be set to any capacity and resolution with 6 digits (subject to application and regulations). Electronic calibration can be also performed via the mV/V output values of load cells.
Weighing functions	Automatic zero tracking, no-motion detection, auto-zero on power-up, zero, tare, multiple test functions
Full scale range	The two most significant decades of the digital display are programmable from 1 up to 99 for the full scale range. Single or dual interval/range, auto-switching between the different display steps.
Memories	Serial EEPROM for the storage of calibration data (32KB) Flash, tally-roll (Alibi) memory capable of 10,000 weight registrations (64KB)

## LOAD CELL CONNECTION

Number of load cells	Up to 10 strain gauge load cells, 350 $\Omega$ each (or more, provided min input impedance =35 $\Omega$ )
Excitation	+5V alternating polarity or +5VDC (set-up selectable), with sense
Connexion technique	6-wire technique

## INTERFACES

Serial com. Port 1	RS-232C, non-programmable, 2400 baud , full duplex (continuous output, printer output, print on demand and Alibi modes)
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## CONTROL I/O

Digital input (x1)	9-24 VDC, positive common, opto-isolated to 2.5 KV, set up programmable
Digital outputs (x2)	24 VDC $\pm$ 10%, transistor (SOURCE) darlington, positive common, max current 100 m A, opto-isolated to 2.5KV, set up programmable

## POWER SUPPLY

9-15 VDC (0.5 A) and 230 VAC via included main power adapter.

## ENVIRONMENTAL CONDITIONS / ENCLOSURE

EMC	According to OIML R76 and EN 45501 requirements
Operating temperature	-10°C to +40°C
Storage temperature	-10°C to +70°C
Humidity	40% to 90% RH (non condensing)
Enclosure	Plastic, IP40 protection (IP54 for front panel) Dimensions (in mm): 144(L)x72(H)x132(D), panel cut-out : 136.5(L)x66.5(H)

## OPTIONAL FEATURES

Serial com. Port 2	RS-485, set-up programmable, 2400-57600 baud, half duplex, (continuous output, remote printer output, EDP and master-slave protocols)
Serial com. Port 2	RS-232C, set-up programmable, 2400-57600 baud, half duplex, (continuous output, remote printer output, EDP and master-slave protocols)
Analogue output	Analogue output, current (4(0)..20m A) or voltage (0.02..10V) (hardware selectable), resolution: 16 bit