

INDI 5250

WEIGHING INDICATOR

The INDI 5250 is a member of the INDI 5200 series of digital indicators and controllers, designed for demanding weighing applications with the need of digital and analogue interfacing to higher level process control equipment. Industrially oriented hardware and proven software allow simple operation at high accuracy and reliability, in a small panel mount enclosure and at an attractive price. Up to 30 units can be connected via industrial Network to a PC for multi-weigher applications.



BASIC FEATURES

- Approved for 10,000d
- Up to 70 measurements per second
- Alibi-memory for 10,000 records
- Parallel connection of up to 10 strain gauge load cells
- Display resolution up to 99,000div.
- Bright, 6-digit, red LED display (14mm)
- Serial RS232 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)

OPTIONS

- Additional RS485 or RS232 serial port with network capability
- Analogue output (current or voltage)

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

0.4 μ V/VSI for approved scales, 0.1 μ V/VSI 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.	Deadload \leq 2ppm / °C, Span \leq 2ppm / °C

CALIBRATION AND WEIGHING FUNCTIONS

Calibration	Digital calibration (dead load and span) and scale parametrization 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 m V/V output values of load cells.
Weighing functions	Automatic zero tracking, no-motion detection, auto-zero on power-up, zero, tare (max tare effect = -Max), 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 Ω each (or more, provided min input impedance = 35 Ω)
Excitation	+5V alternating polarity or +5VDC (set-up selectable), with sense
Connection technique	6-wire technique

INTERFACES

Serial com. Port 1	RS232, 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, positiv common, opto-isolated to 2.5 KV, set up programmable
DIGITAL OUTPUTS (x2)	24 VDC \pm 10%, transistor (SOURCE) darlington, positiv common, max current 100 m A, optoisolated to 2.5KV, set up programmable

POWER SUPPLY

Input voltage	24VDC
Option	Alternatively : 9-15VDC via mains power adapter (factory installed option)

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	RS485, set-up programmable, 2400-57600 baud, half duplex, (continuous output, remote printer output, EDP and master-slave protocols)
Serial com. Port 2	RS232, set-up programmable, 2400-57600 baud, half duplex, (continuous output, remote printer output, EDP and master-slave protocols)
Analogue output	Analogue output, current (0/4 -20m A) or voltage (0.02 -10V) (hardware selectable), resol. 16 bit

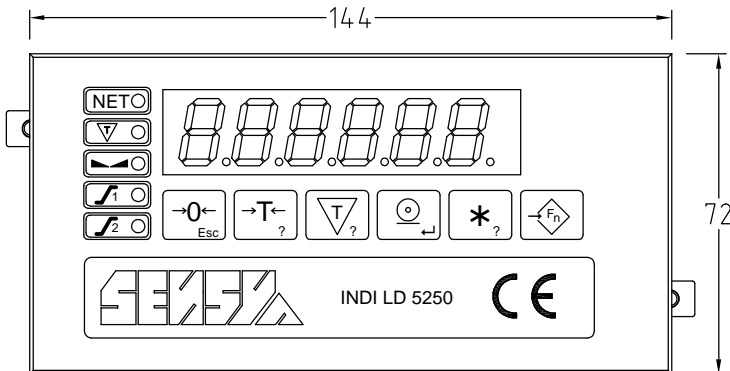
INDICATOR

model INDI 5250

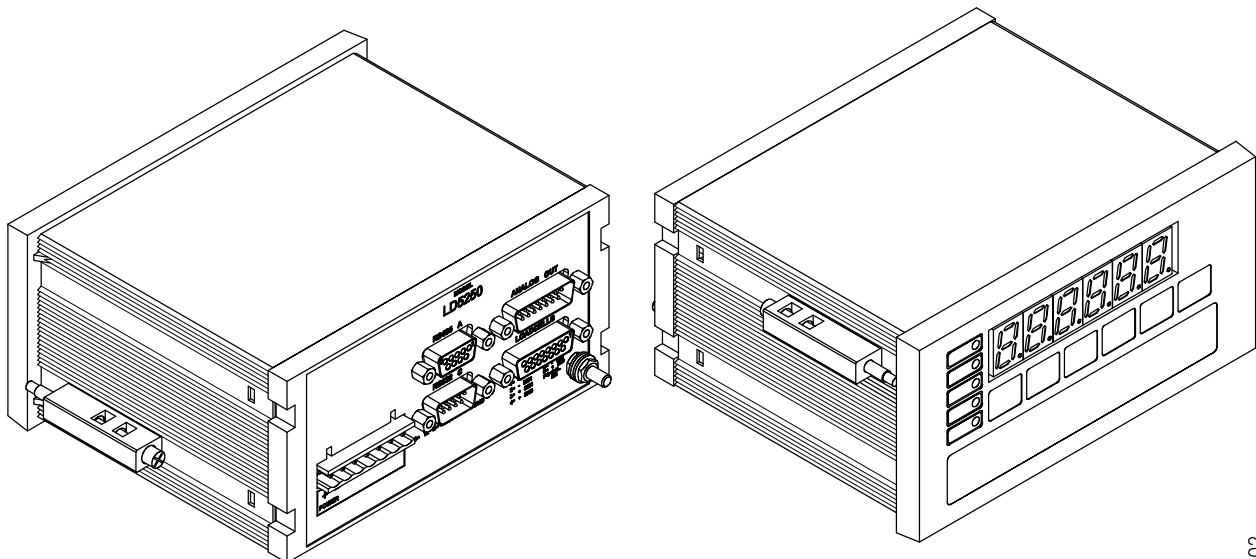
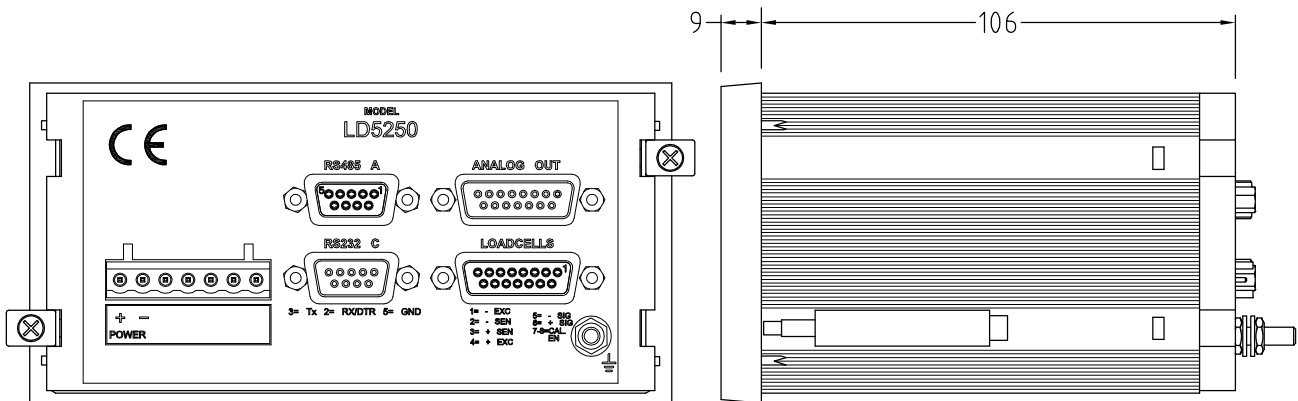
Indicator Certified and approved Class III – OIML/R60
 Display 6 digits 14 mm – RS 232 C Output
 Power supply: 230 VAC/ 9 to 15 VDC IP54
 2 Set points (contacts relay 24 VDC/100mA)
 Load cell Excitation 5VDC (Max. 10 Load cells 350 ohms)
 Wiring 6 wires (Sense)
 Case Noryl DIN 43700



Options :
 4–20 mA / 0–10 V Output
 RS485 A Output
 Supply 24 VDC



Panel cut-out 136.5 (-0+0.8)
 66.5 (-0+0.5)



Rev.13/11/2002