



## Weight Indicator-LD 5204,-06

### Product Description

The LD5204, LD5206 are versatile, general purpose weight indicators, manufactured according to the highest quality standards. User friendly, simple and fast in operation, with an attractive stainless steel design and sophisticated hardware and software features, the LD5204, -06 models represent powerful solutions to a multitude of weighing applications



### Basic Features

- Approved for 10,000 divisions
- Up to 70 measurements per second
- Alibi-memory for 10,000 records
- Excitation for up to 10 strain gauge load cells, 350Ω each (or more)
- Large, 6 digit LED (20mm) or LCD (16mm) display with status annunciators
- 8 keys membrane keyboard with tactile feedback
- Single or dual interval / range
- Analogue and digital filtering
- Standard RS232 for PC or printer connection
- 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)
- Stainless steel enclosure (IP65) or powder coated aluminium (IP40)

### Application

- Bench and floor scales, weighbridges and dual scale applications requiring weight indication and professional documentation
- Silo weighing – weight indication and data collection
- Piece counting (single or dual scale configurations)
- Computer based weighing systems

### Operating Keys

- On / off - Zero scale
- Tare key
- Tare recall key
- Print key
- Total key
- Piece counting key
- Scale exchange key

### Options

- Second serial interface RS485 or RS232 with protocol output
- Analogue output (current or voltage)
- Second analogue input for second scale connection
- Real time clock

## Specifications

### DISPLAY - KEYBOARD

DISPLAY	6 digit, 7 segment, LED 20mm (LD5204) or LCD 16 mm (LD5206)
STATUS ANNUNCIATORS	No motion, zero, tare in use, net, scale in operation (#1 or #2 or
KEYBOARD	SUM #1+2, if second scale connected), piece counting mode
DECIMAL POINT SETTING	8 key membrane keyboard with tactile feedback
DISPLAY STEP	Between any digit of the weight display
DISPLAY DIGITS	1, 2, 5, 10, 20, 50, 100, 200 (set-up selectable) 4, 5, 6 (set-up selectable)

### SCALE CALIBRATION & FUCTIONS

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). Calibration of two analogue inputs (standard & optional) with individual coefficients. 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 (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. Serial EEPROM for the storage of calibration data (32KB)
MEMORIES	Flash, tally-roll (Alibi) memory capable of 10,000 weight registrations (64KB)

### A/D CONVERTER

TYPE	Sigma-Delta ratiometric with analogue and digital filtering
CONVERSION RATE	(FIR & post filtering, rolling average)
SENSITIVITY	3 up to 70 measurements per second (set-up selectable)
ANALOGUE SIGNAL RANGE	0.4µV/VS1 for approved scales, 0.1µV/VS1 for non-approved scales
RESOLUTION	-0.25 to 2mV/V (-1.25mV to -10mV) or -0.25 to 4mV/V (-1.25mV to -20mV)

### 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 10%, transistor (SOURCE) darlington, positive common, max current 100 m A, opto-isolated to 2.5KV, set up programmable

### POWER SUPPLY

INOX VERSION	85-265 VAC, 50/60 Hz (alternatively 9 - 15 VDC via external source)
ALUM VERSION	85-265 VAC, 50/60 Hz (Or via internal rechargeable battery , 6V/3Ah, for LD5206 alum)

### ENVIRONMENTAL CONDITIONS / CONSTRUCTION

EMC	According to OIML R76 and EN 45501 requirements
OPERATING TEMPERATURE	-10oC to +40oC
STORAGE TEMPERATURE :	-10oC to +70oC
HUMIDITY	40% to 90% RH (non condensing)
ENCLOSURE	Stainless steel, AISI 304, sealed to IP65. Dimensions (in mm): 252(L)x152(H)x62(W)

### OPTIONAL FEATURES

SECOND SERIAL PORT	RS232 or RS485, set-up programmable, 2400-57600 baud ,half duplex, (continuous output, remote printer output, EDP and master-slave protocols)
SECOND ANALOGUE INPUT	For second scale connection, with the same specifications as the primary analogue input
REAL TIME CLOCK	Providing print-outs with date and time
ANALOGUE OUTPUT	Analogue output, current (0/4 -20m A) or voltage (0.02 -10V) (hardware selectable), resol. 16 bit

### LINEARITY & STABILITY

LINEARITY	Within 0.002 % of full scale
LONG TERM STABILITY	0.005 % of full scale per year
TEMPERATURE COEF.	Deadload 2ppm / C, Span 2ppm / C

### LOAD CELL CONNECTION

NUMBER OF LOAD CELLS	Up to 10 strain gauge load cells, 350 Ω each (or more, provided min input impedance =35Ω)
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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### APPROVALS

ACCURACY CLASS III	EU-Type approval for 10,000 divisions (approval Nr.: DK
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