

# Weight Indicator-LD 5218

# **Product Description**

The LD5218 is a compact, powerful alphanumeric terminal, designed for numerous weighing applications, varying from a simple fixed tare weighing operation to powerful truck in/out management systems. User friendly configuration and operation, hardware and software reliability, and legal-fortrade accuracy in an attractive enclosure ensure high performance to meet the most demanding needs



# **Basic Features**

- Approved for 10,000divisions
- Up to 70 measurements per second
- Alibi-memory for 10,000 records
- **Excitation** for up to 10 strain gauge load cells,  $350\Omega$  each (or more)
- Large, 16 character LCD display (14.5mm) with status annunciators
- 27 keys membrane keyboard with tactile feedback
- Single or dual interval / range
- Analogue and digital filtering
- Standard RS232 for PC or printer connection and RS232/RS485 interface with networking capability
- Real time clock
- 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

- Weighbridges, platform scales or dual scale applications requiring weight indication and professional documentation
- Piece counting (single or dual scale configurations)
- Computer based weighing systems

# **Operating Keys**

- On / off Zero scale Preset tare key
- Tare key
- Tare recall key
- Print key
- 1st and 2nd weighing for weighbridge opera-
- tions
- Piece counting
- Scale exchange key
- Menu dialogue selection
- Alphanumeric data entry keys
- Front panel key lock capability

# Options

- Analogue output (current or voltage)
- Second analogue input for second scale connection

# **Specifications**

#### **DISPLAY - KEYBOARD**

16 character, LCD, backlit display, 14.5mm digit height DISPLAY

No motion, zero, tare in use, net , scale in operation (#1 or #2 or SUM #1+2, if second scale STATUS ANNUNCIATORS

connected), piece counting mode

Pseudo-alphanumeric menbrane keyboard of 27 keys, with tactile feedback **KEYBOARD** Between any digits of the weight display

**DECIMAL POINT SETTING** 

4, 5, 6 (set-up selectable)

**WEIGHT DIGITS DISPLAY STEP** 

1, 2, 5, 10, 20, 50, 100, 200 (set-up selectable)

# **SCALE CALIBRATION & FUCTIONS**

**CALIBRATION** Digital calibration (deadload and span) via operator friendly, structured menu system. The weight

display can be set to any capacity and resolution with 6 digits (subject to application and regulations). Calibration of two analogue inputs (one standard and one optional) with individual coefficients. Electronic calibration can also be 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), preset tare, net mode, multiple test functions

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 (64KB)

**MEMORIES** Flash, tally-roll (Alibi) memory capable of 10,000 weight registrations (64KB). Real-Time-Clock.

#### A/D CONVERTER

**FULL SCALE RANGE** 

**TYPF** 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/VSI for approved scales, 0.1μV/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: 990,000 (selectable, in accordance with regulations)

**CONTROL I/O** 

DIGITAL INPUT (x1) 9-24 VDC, positiv common, opto-isolated to 2.5 KV, set up programmable

24 VDC 10%, transistor (SOURCE) darlington, positiv common, max current 100 m A, opto-isolated **DIGITAL OUTPUTS** 

to 2.5KV, set up programmable

Analogue ouput, current (0/4 -20m A) or voltage (0.02 -10V) (hardware selectable), resol. 16 bit

**POWER SUPPLY** 

85-265VAC, 50/60 Hz. Alternatively 9 - 15 V DC via external source **INOX VERSION** 

85-265VAC, 50/60 Hz. Battery back-up standard via internal rechargeable battery, 6V/3Ah **ALUM VERSION** 

## **ENVIRONMENTAL CONDITIONS / CONSTRUCTION**

According to OIML R76 and EN 45501 requirements

OPERATING TEMPERATURE -10oC to +40oC STORAGE TEMPERATURE -10oC to +70oC

**HUMIDITY** 40- 90% RH, non condensing

HOUSING (INOX VERSION) Stainless steel, AISI 304, sealed to IP65. Dimensions (in mm): 252(L)x152(H)x62(W) Powder coated aluminium, sealed to IP40. Dimensions (in mm): 206(L)x140(H)x135(W)

## **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  $\Omega$  each (or more, provided min input impedance =35 $\Omega$ )

+5V alternating polarity or +5VDC (set-up selectable), with sense **EXCITATION** 

**CONNECTION TECHNIQUE** 6-wire technique

**INTERFACES** 

RS232, non-programmable, 2400 baud , full duplex (continuous output, printer output, print on SERIAL COM. PORT 1

demand and Alibi modes

RS485, set-up programmable, 2400-57600 baud , half duplex (continuous output, remote printer SERIAL COM. PORT 1

output, EDP and master-slave protocols)

**ΔΡΡΡΟΥΔΙ S** 

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