



■ ■ ■ DIGITAL WEIGHT INDICATORS

LOAD LINE 2

DIGITAL WEIGHT INDICATOR

- EC Type Approval 10.000 d
- 6 Digits, 20 mm easily readable LED display
- High speed and accuracy
- RS232, RS422/485 Serial Data Ports
- X 10 View Function



Load-Line 2 weight indicator is especially designed with international high technology standards for scales, electronic truck scales and various types of industrial applications. Load Line 2 has high sensitivity owing to 100 times ADC conversion speed per second and 16.000.000 internal counting value. RS232, RS422/485 serial data outputs are standard in Load line 2. Also, it can be connect personal computers, remote displays and printers. As result of additional analog or digital output options, it can be integrated to automation systems.

It is possible to use even in hard industrial environments for a long time. Load Line 2 has table, colon, and panel and ex-proof models for hazardous areas. It can be used on colon or table and can be mounted on a wall or panel with respect to application type.



LOAD LINE 2 DIGITAL WEIGHT INDICATOR

GENERAL SPECIFICATIONS

Easy to Use

Load Line 2 provides easy and quick programming and usage opportunities with the user-friendly and block structure menu,

High speed and accuracy

With 100 times ADC conversion speed per second and 24 bit 16,000,000 internal counting value, Load Line 2 provides more rapid and accurate weighing.

Weighing range selection

Single and multi range weighing selection function on demand

Anti-Vibration Filter

With programmable digital and sudden load levels, it saves weighing from environmental factors (vibration, noise) and harmful effects of hitting loads. It allows accurate and reliable weighing for the applications like dynamic weighing

Self Calibration

Electronic calibration without requiring any load for industrial applications

Serial Communication

Standard RS232 C serial data output provides 300 - 9600 baud rate, 8 data bits, 1 start bit, 1 stop bit and none parity protocol serial communication.

Also with standard RS 422/485 serial output, it allows Half-Full Duplex communication or optional MODBUS RTU communication over RS 232 / RS 422/485.

Control Inputs / Outputs

Free programmable optional 4 I/O input-output card. Optoisolated 5 V DC (PNP logic) input, TTL, 1 A/24 V DC or 0.5 A / 125 V AC relay output option

Analog Output

0-20 mA / 4-20 mA or 0-10 V analog output option allows communication for automation systems like PLC , and other devices.

Alibi Memory

Optional, alibi memory allows storing 105.000 records including weighing number, gross , tare and net weight information.

Printer Connection / Labeling

Through RS232 data output connection Load Line 2 can print ticket, stick label and barcode by connecting thermal, ribbon, dot matrix and barcode type printers. In weighing ticket, ticket number, date-time, gross, tare, net and company Name with Turkish-English Language option can be printed. Ticket- label desing, language settings and the information which will be printed to ticket can be desinged by the operator.

Software

Load line 2 provides giving possibility to programming for developing special applications for non-trade metrological applications by using additional devices and equipments.

Additional Functions

Simple piece counting, peak hold, dynamic weighing, automatic and tolerance control mode operation options.

LL2 CTD

Column-Table and Panel Type



LL2 EX

Ex-Proof Type



LL2 CTB

Column-Table Type



LL2 POA

Panel Tip Type



TECHNICAL SPECIFICATIONS

Accuracy Class	III / IIIII	
Approved Division	10.000 d Single and Multi Interval	
	2009/23 EC, OIML R76, CE	
Display	6 Digits, 20 mm. Led Display	
Status Indicators	Stand still, Zero, Net, Weight Range, Pcs, Lb and Kg symbols	
Key pad	Membran type, 8 functional Touch sense keys	
A/D Converter / Speed	24 Bit Delta-Sigma - 10 ms. - 6.25-100 Hz.	
Signal Range	0,1mV/V- 3mV/V	
Input Voltage	0.83 µV/e	
Internal Resolution / Division	1/16.000.000 Internal Conversions / Display up to 80.000	
Linearity & T	% 0.0015 FS; ≤ 2 ppm / °C	
Loadcell Excitation	5 V DC	
Loadcell Connection	Min. 1 unit 43,75 ohm, / Max. 8 units 350 ohm, 25 units 1100 ohm	
Serial Communication	RS232 / 485	
Power Supply	12 V DC / 5 W (max.)	
Operation Temperature	-10°C.....+ 40°C / %85 RH	
Protection Class	IP 54 / IP 65	
Housing	Aluminium Cast (Standart) / Stainless Steel (Option)	
SIZE & WEIGHT	Size - Weight	Size with package - Weight
LL2 CTB Column-Table Type	168x162x99 mm - 2 kg	330x210x120 mm - 2,8 kg
LL2 CTD Column-Table-Panel Type	215x154x158 mm - 1,5 kg	330x210x120 mm - 2,3 kg
LL2 POA Panel Type	168x162x99 mm - 1,5 kg	330x210x120 mm - 2,3 kg
LL2 Ex-Proof Ex-Proof Type	241x172x302 mm - 13,8 kg	390X310X240 mm - 14,9 kg

OPTIONS

Communication	2 x RS232, 1 x RS422 / 485 (Half-Full Duplex), MODBUS RTU , Ethernet, TCP / IP
Wireless Communication	RF
Analog Output	0-10 V / 0-20mA / 4-20 mA
Digital Input/Output	Optoisolated 4 inputs (5 VDC-PNP Logic-) / 4 TTL, 1 A/24 VDC or 0.5 A/125 VAC relay outputs
Alibi Memory	2MB. (105.000 Records)

