

**XK3190-D18M2**  
**Weighing Indicator**

**User Manual**

**April of 2008 Version**

Shanghai Yaohua Weighing System Co., Ltd

# XK3190—D18 Technical Parameters

## Chapter 1 Technical Parameters

1. Model: XK3190-D18 Weighing Indicator
2. Accuracy: Grade III, n=5000
3. Analog part:
  - AD conversion method:  $\Sigma$ - $\Delta$  conversion
  - Maximum conversion code: 24 bits
  - Conversion speed: 50 times/second ~ 200 times/second
  - Input signal range: -20 ~ 20mV
  - Non-linearity:  $\leq 0.0015\%FS$
  - Zero temperature shift:  $\leq 0.05\mu V/^{\circ}C$
  - Load cell Excitation: AC 5V, 250mA, available to connect with 12 load cells of 350 $\Omega$  or 24 load cells of 700 $\Omega$
  - Maximum sensitivity: 0.5 $\mu V/d$
  - Connecting method of load cell: 6-wire method, and automatic compensation for long wire
4. Display
  - D18M1 Indicator with single window FSTN 240 $\times$ 64 Dot matrix LCD with high contrast
  - D18M2 Indicator with double windows 6-bit LED + 128 $\times$ 96 Dot matrix LCD
5. Keyboard
  - Number keys: 0 ~ 9
  - Function keys: 23 (among which 10 are overlapped with number keys)
6. Clock: available to indicate year, month, date, hour, minute and second as well as automatic leap year and leap month
  - Precision:  $\pm 5s/24h$ , not affected by power-off.
7. Scoreboard display interface
  - Transmission method: serial output method, 20mA current loop signal (with constant current source output)  
(RS232 interface optional)
  - Transmission style: 11-bit binary number
  - Transmission baud rate: 600

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Transmission distance:  $\leq 2000\text{m}$

## 8. Serial communication interface

Transmission method: RS232, RS422/RS485 (optional)

Baud rate: 600/1200/2400/4800/9600 optional

Data transmission style: 10-bit binary number, 1 start bit, 8 data bits (ASCII code) and 1 stop bit

Transmission distance: RS232  $\leq 15\text{m}$       RS422/RS485  $\leq 1000\text{m}$

## 9. Printing interface

### 1) Panel-type microprinter

Printing paper: thermal paper with width of 57mm and roll external diameter less than 40mm

2) Standard parallel printing interface: available to connect with line printers such as ESPON LQ-300K, KX-P1131 and KX-P1121 etc.

## 10. Data memory

Available to store 1000 sets of vehicle number, tare weight, 1000 sets of cargo names, 1000 sets of weighing records and 50 sets of Overload RECs

## 11. Use Environment

Power supply: AC 110V~220V, 50~60Hz,      Current:  $\leq 0.3\text{A}$

DC 6V-8V (optional), Current:  $\leq 0.6\text{A}$  when not printing while  $\leq 3\text{A}$  for printing

Use temperature:  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

Storage temperature:  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$

Relative humidity:  $\leq 85\%\text{RH}$

Preheating time: 10~30min

## 12. Indicator features

- 32-bit ARM processor with high speed and high performance, and built-in operating system are adopted to make real-time and correct accumulation, calculation, memory, inquiry and printing of the weight data;
- Humanized operating interface, two-dimensional rolling menu bar management, quick positioning of required parameters menu by directional keys, and abundant information of operation prompt;
- Integrated input of English/number/sign, similar to T9 input mode of mobile phone;
- Optimized digital filtering feature and good temperature feature, effectively assuring the stability and high precision of weighing data;

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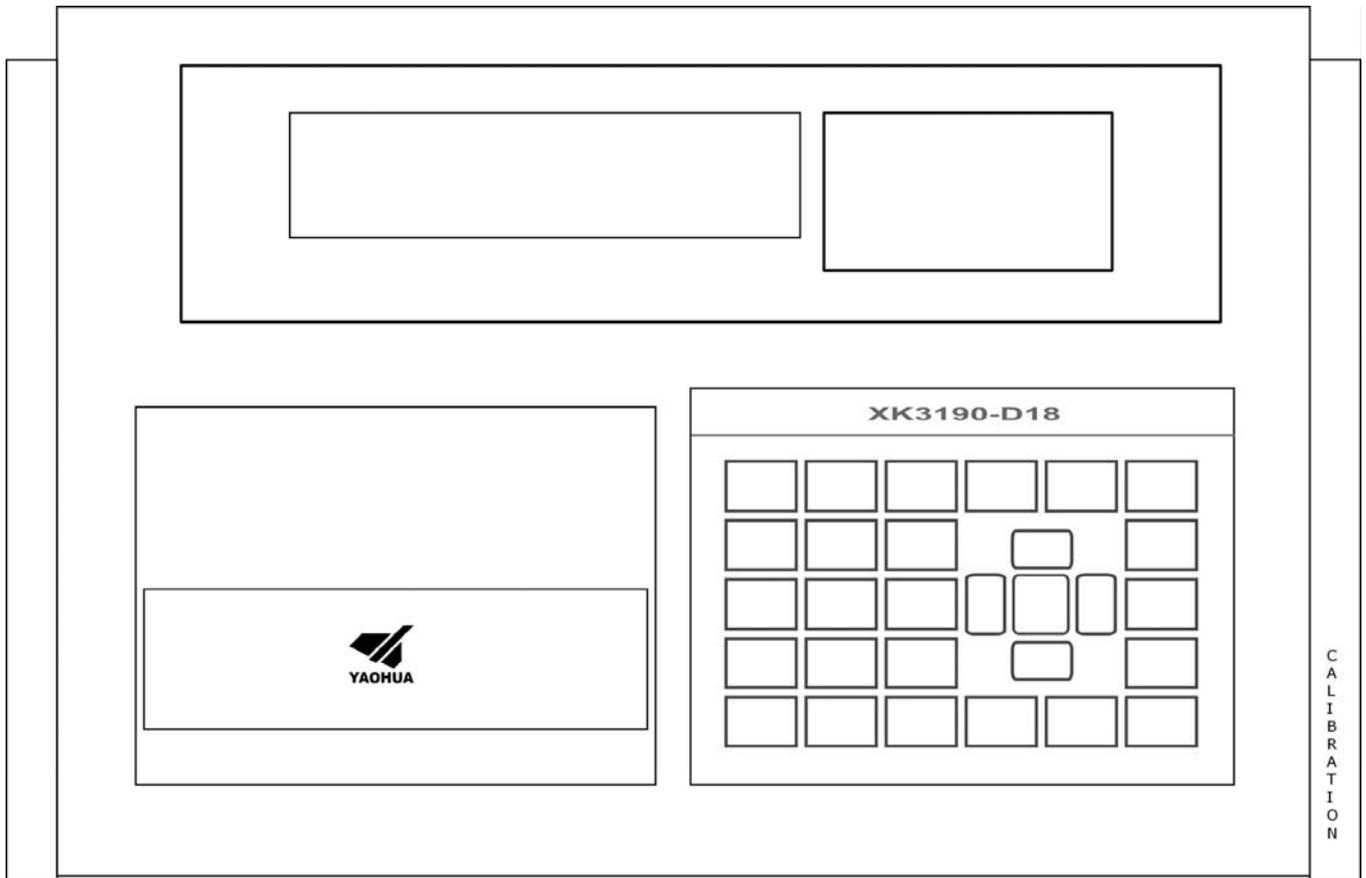
- Complete set functions of measured parameter for general truck weighing indicator;
- Available to store 1000 sets of vehicle number, tare weight, 1000 sets of cargo names, 1000 sets of weighing records and 50 sets of Overload RECs;
- Functions of storage, prompt intelligent inquiry and deletion for weighing records;
- Static weighing function per axle;
- Optional 10M/100M adaptive Ethernet interfaces, available for transmission and management of weighing records through LAN and Internet Net;
- Optional USB data interface, available for connection with computer via USB data wire;
- Optional PS/2 keyboard interface, available for indicator operation via general PS2 keypad of computer.

## 13. Differences on the models of XK3190-D18 series indicators

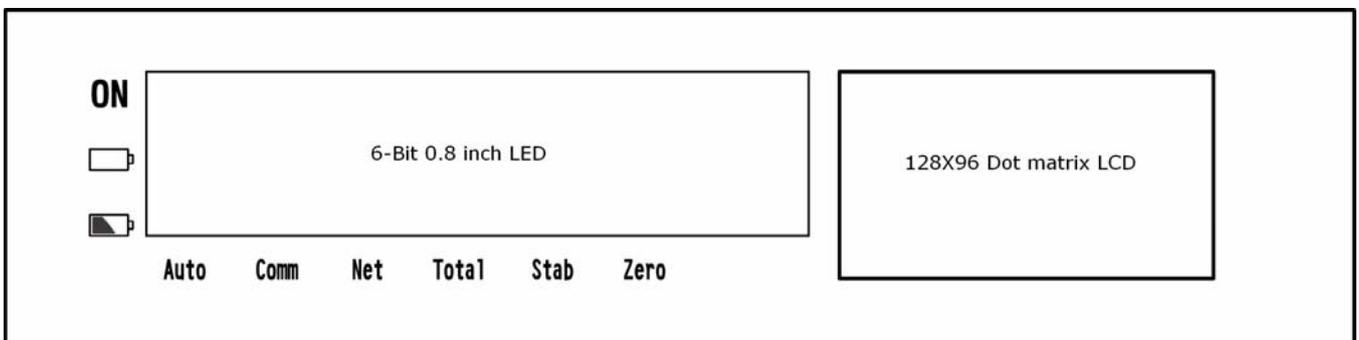
XK3190-D18m1	m-type cast aluminum housing, single-window indicator, Adoption of FSTN 240×64 Dot matrix LCD with high contrast, No PS/2 interface, Ethernet interface or USB interface.
XK3190-D18m1+	m-type cast aluminum housing, single-window indicator, Adoption of FSTN 240×64 Dot matrix LCD with high contrast, With PS/2 interface, Ethernet interface and USB interface.
XK3190-D18s1	s-type waterproof s/s housing, single-window indicator, Adoption of FSTN 240×64 Dot matrix LCD with high contrast, No PS/2 interface, Ethernet interface or USB interface.
XK3190-D18s1+	s-type waterproof s/s housing, single-window indicator, Adoption of FSTN 240×64 Dot matrix LCD with high contrast, With PS/2 interface, Ethernet interface and USB interface.
XK3190-D18m2	m-type cast aluminum housing, double-window indicator, Adoption of 6-bit & 0.8-inch LED display window + 128×96 Dot matrix LCD, No PS/2 interface, Ethernet interface and USB interface.
XK3190-D18m2+	m-type cast aluminum housing, double-window indicator, Adoption of 6-bit 0.8-inch LED display window + 128×96 Dot matrix LCD, With PS/2 interface, Ethernet interface and USB interface.

## Chapter 2 Installation and Connection

### I. Diagram for Indicator



(Fig. 2-1) Diagram for Front Panel of Single-window Indicator



XK3190-D18 Diagram for Double-window Indicator

The signs and characters on the panel should be transparent with black base.

(Fig. 2-2) Diagram for Front Panel of Double-window Indicator

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