

XK3190-D18M2
Weighing Indicator

User Manual

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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: Σ - Δ 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 Ω or 24 load cells of 700 Ω
 - 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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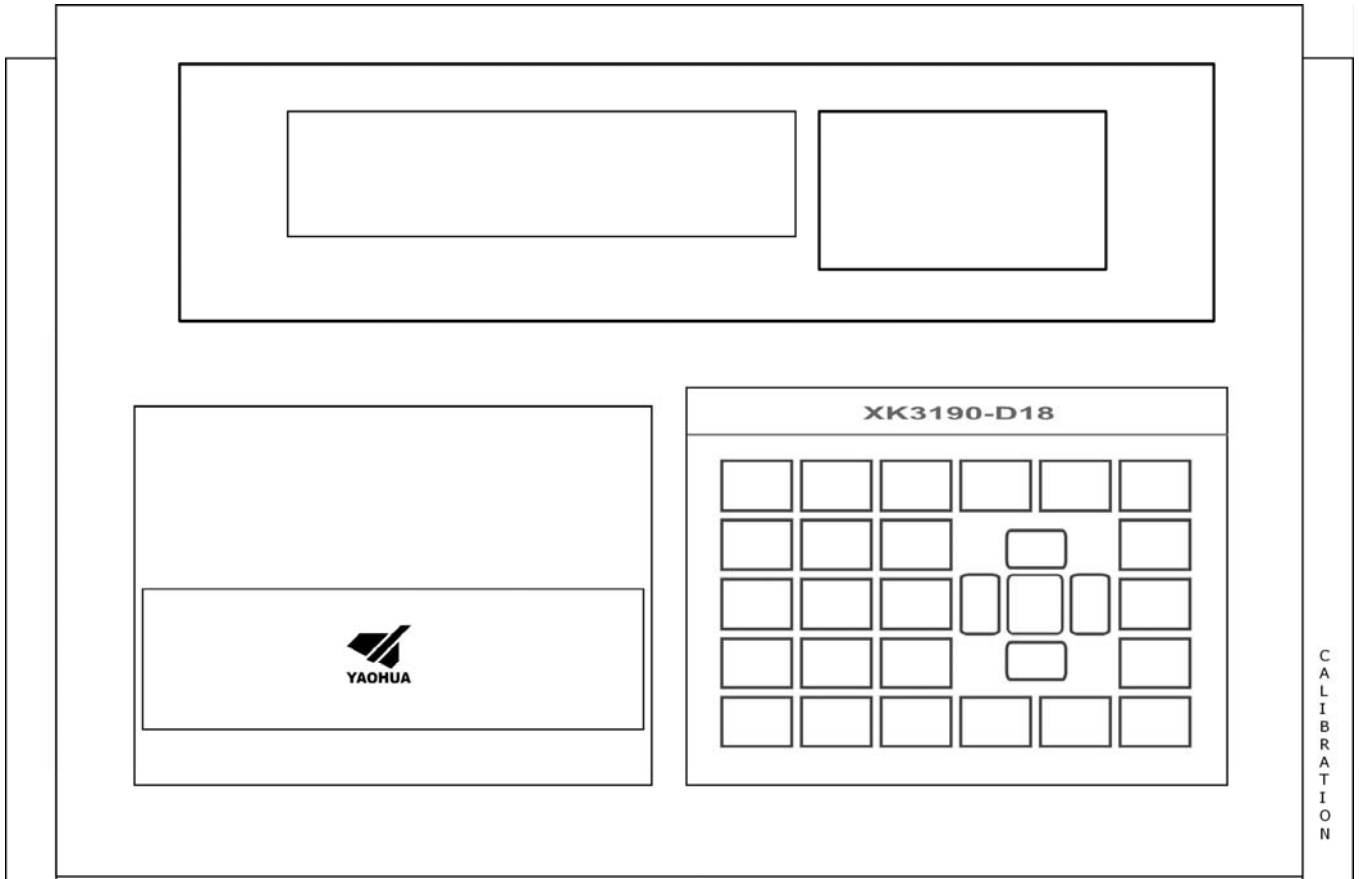
- Complete set functions of measured parameter for general truck weighing indicator;
- Available to store 1000 sets of vehicle number, tare weight, 1000 sets of cargo names, 1000 sets of weighing records and 50 sets of Overload RECs;
- Functions of storage, prompt intelligent inquiry and deletion for 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

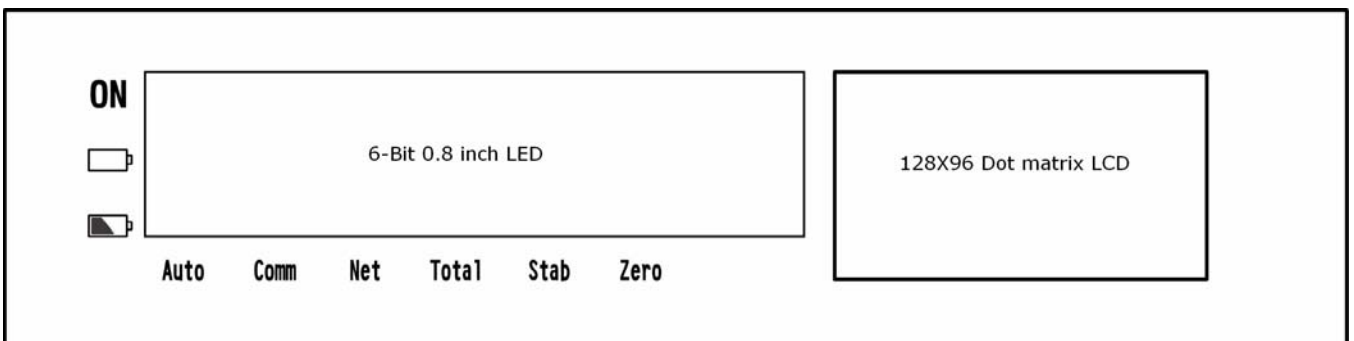
XK3190-D18m1	m-type cast aluminum housing, single-window indicator, Adoption of FSTN 240×64 Dot matrix LCD with high contrast, No PS/2 interface, Ethernet interface or USB interface.
XK3190-D18m1+	m-type cast aluminum housing, single-window indicator, Adoption of FSTN 240×64 Dot matrix LCD with high 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

This is a “Table of Contents preview” for quality assurance

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