

TECHNOLOGY AND PARAMETERS

/ Description of technology and basic parameters /



BASIC PROPERTIES

| | |
|----------|------------------|
| NAME | Signal generator |
| MODEL | SG-004A |
| SIZE | L82*W27*H112mm |
| N.W | 167g |
| COLOR | Black + yellow |
| LCD SIZE | 2.4in |



POWER PROPERTIES

| | |
|--------------|-----------------|
| INTERFACE | Type-C |
| INPUT | 5V-12V/10W(Max) |
| BATTERY | 3000mAh |
| STANDBY TIME | 24h |



PACKING LIST

SG-004A Signal Generator
Type-C charging cable

Four alligator test clips
User's manual

Certificate

TECHNICAL PARAMETER

| Signal | Scope | Precision | Resolution | Internal impedance |
|------------------------|----------------|---------------------|------------|--------------------|
| Current (mA) | 0~24 mA | $\pm(0.02\%+0.003)$ | 0.001mA | 100 Ω |
| Voltage (V) | 0~24 V | $\pm(0.02\%+0.003)$ | 0.001mA | 500K |
| Passive (XMT) | 0~24mA | $\pm(0.02\%+0.003)$ | 0.001V | 100 Ω |
| 24V loop | 0~24mA | $\pm(0.1\%+0.005)$ | 0.01mA | 100 Ω |
| FRQ (Hz) | 0~9999Hz | $\pm 2\%$ | 5 digits | 1MK |
| Millivolt (mV) | -10~100mV | $\pm(0.03\%+0.03)$ | 0.01mV | 2K |
| Thermocouple (TC-S) | 0~1760°C | $\pm(0.2\%+1)$ | 1°C | 2K |
| Thermocouple (TC-B) | 0~1810°C | $\pm(0.5\%+1)$ | 1°C | 2K |
| Thermocouple (TC-E) | 0~990°C | $\pm(0.2\%+1)$ | 1°C | 2K |
| Thermocouple (TC-K) | 0~1320°C | $\pm(0.2\%+1)$ | 1°C | 2K |
| Thermocouple (TC-R) | 0~1760°C | $\pm(0.3\%+1)$ | 1°C | 2K |
| Thermocouple (TC-J) | 0~1190°C | $\pm(0.3\%+1)$ | 1°C | 2K |
| Thermocouple (TC-T) | 0~390°C | $\pm(0.2\%+1)$ | 1°C | 2K |
| Thermocouple (TC-N) | 0~1290°C | $\pm(0.2\%+1)$ | 1°C | 2K |
| Thermocouple (WRe3/25) | 0~2320°C | $\pm(0.2\%+1)$ | 1°C | 2K |
| Thermocouple (WRe5/26) | 0~2320°C | $\pm(0.2\%+1)$ | 1°C | 2K |
| Resistance (ohm) | 0~390 Ω | $\pm(0.2\%+1)$ | 0.1°C | / |
| Pt100 | -200~650°C | $\pm(0.5\%+1)$ | 0.1°C | / |
| Cu50 | -20~150°C | $\pm(0.5\%+1)$ | 0.1°C | / |

Output Signal

| | |
|--------------------------------|-----------|
| Active current | 0~24mA |
| Passive current | 0~24mA |
| Voltage | 0~24V |
| Frequency/ PWM | 0~9999Hz |
| 24V loop | 0~24mA |
| mV/ Thermocouple | -10~110mV |
| Resistance/ Thermal Resistance | 0~390Ω |

Input Signal

| | |
|-------------------------------|-----------|
| Active current | 0~24mA |
| Voltage | 0~24V |
| Frequency/PWM | 0~9999Hz |
| mV/thermocouple | -10~110mV |
| Resistance/Thermal Resistance | 0~400Ω |

Extended Function

- Program automatic lift output
- Preset output
- Signal linear conversion output
- Real-time curve
- History record
- Output timing
- USB analog serial communication
- USB Emulated U Disk Firmware Upgrade

FNIRSI™

MINI SIZE PRECISE MEASUREMENT

/ S I G N A L G E N E R A T O R /





Mini



$\leq 0.2\%$ error



Engineering quantity
/Signal value



Backlit screen

MILITARY QUALITY HUMANIZED DESIGN

/ FNIRSI designs every detail carefully /

1.

24H STANDBY

built-in 3000mAh lithium battery,
super long standby time of 24 hours

2.

POWER DISPLAY

The screen shows the
remaining battery



3. TYPE-C

Support Type-C interface fast charging



4. ANTI-DROP

ABS hard shell + elastic silicone surround protection



5. DETAIL CONTROL

Integrated non-slip silicone stripes to prevent slipping



WIRING DISPLAY INSTRUCTIONS

/ Interface wiring display instructions /



PLC/Process instrument, etc.

All switched by electronic switches
All-round Signal Output:
Current/Voltage/Millivolt/Frequency
/Resistance/Thermal Resistance/
Various Thermocouple Signals



PLC/Process instrument, etc.

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Valve position
given

Valve position
feedback

**Pneumatic
valves**

Switch this input (-), the port to 24V, as the power supply for the valve feedback, the input and output are carried out at the same time



Valve position
given

Valve position
feedback

**Pneumatic
valves**

This input (-), the port is closed to 24V, as the negative pole of the input signal, the input and output are performed at the same time

HD DISPLAY ADJUSTABLE BACKLIGHT

/ Backlight: Different Modes~Different Colors /



✓ 2.4-INCH
DISPLAY

✓ TRANSLUCENT
BUTTON

BUTTONS & INTERFACES

/ Button and interface display instructions /





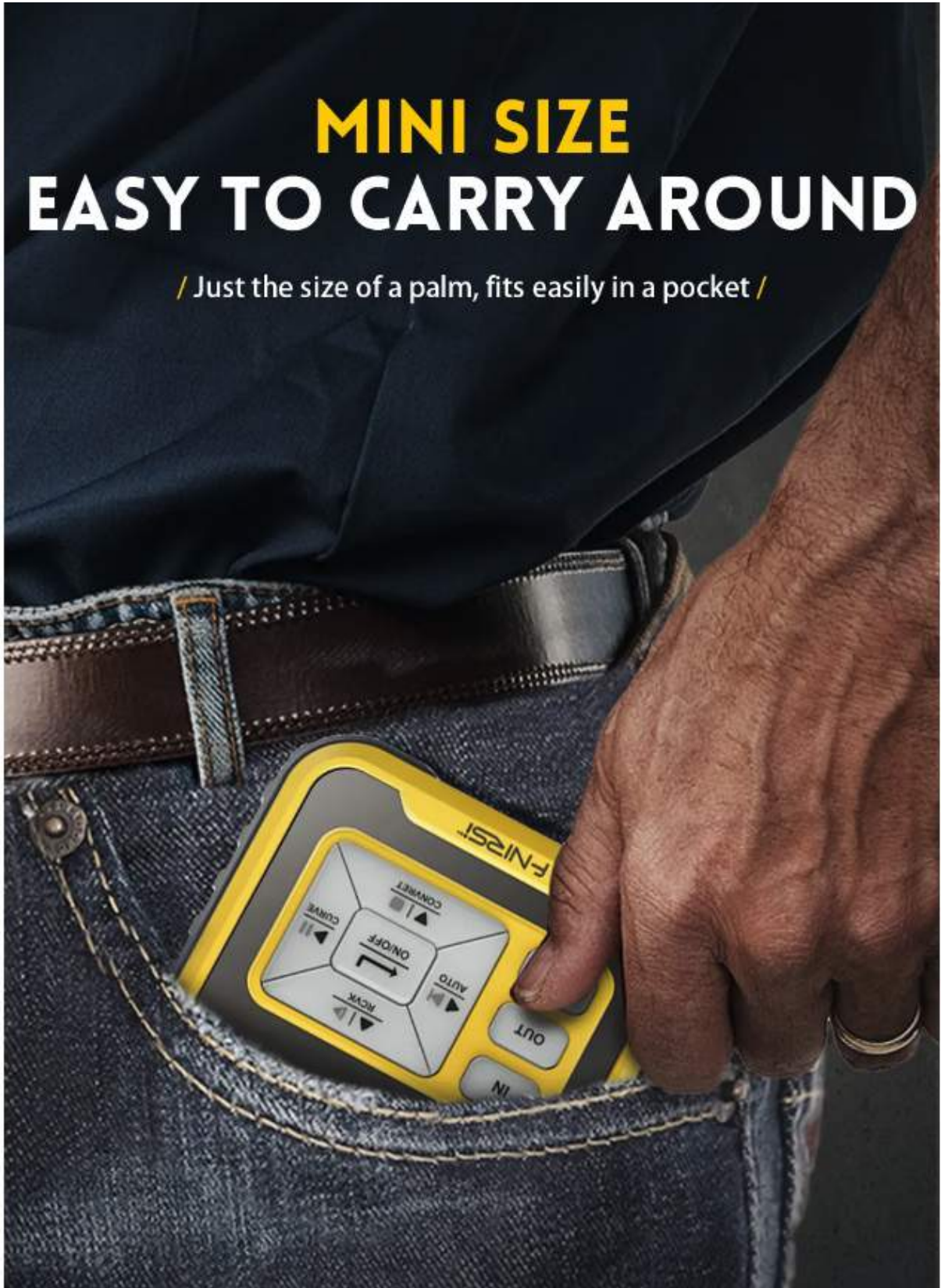
REAL-TIME CURVE RECORD VIEW

/ The change trend of input and output signals
can be displayed through the curve /



MINI SIZE EASY TO CARRY AROUND

/ Just the size of a palm, fits easily in a pocket /



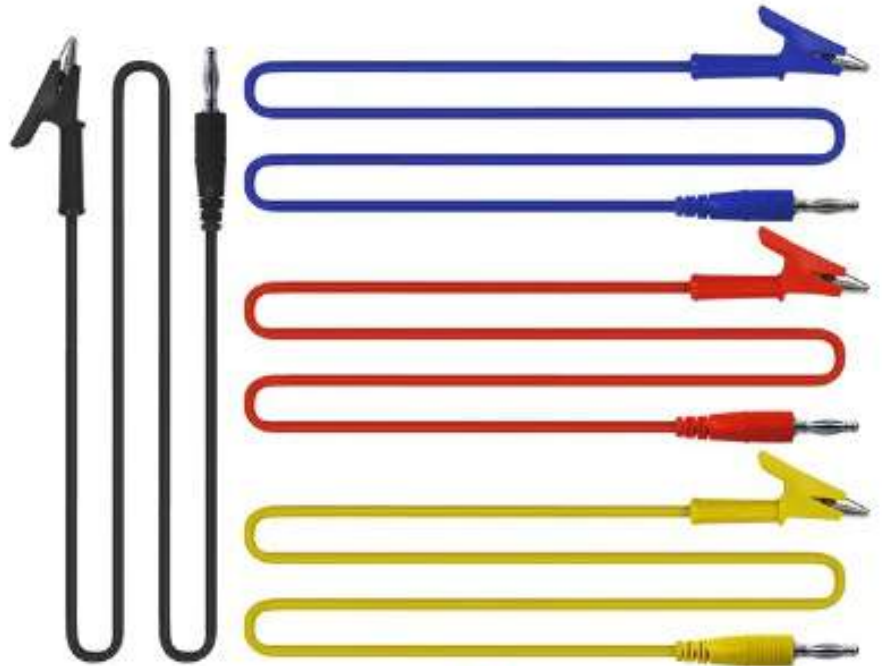
PACKING LIST

/ The package you will receive /

- | | |
|-----------------------------------|----------------------------------|
| 1 004A Signal Generator *1 | 2 Alligator Test Clips *4 |
| 3 USB charger *1 | 4 User Manual *1 |
| 5 Type-C Cable *1 | 6 Packing Box *1 |



1



2



3



4



5



6

