

OPERATION MANUAL

SV8 SERIES UNIVERSAL INDICATOR

Thanks a lot for selecting **ABUSTEK** products! before operating this instrument, please read this manual carefully and fully understand its contents. In case of any problems, please contact our sales Dept. or distributors from whom the instrument has been supplied. The manual contents is subject to change without prior notice.

Warning

Please do not turn on the power supply until all of the wiring is completed. Otherwise electrical shock, fire or malfunction may result.

Do not wire when the power is on. Do not connect the unused terminals. Do not turn on the power supply when cleaning this instruments. Do not disassemble, repair or modify the instrument. This may cause electrical shock, fire or malfunction.

Use this instrument in the scope of its specifications. Otherwise fire or malfunctions may result.

The life of the output relay is quite different according to it capacity and conditions. If use out of its scope, fire or malfunctions may result.

General Safety Precautions

This instrument should be installed in a domestic environment. Otherwise electrical shock, fire or malfunction may result. The operation temperature environment should be between 0 (32F) to 50 (122F).

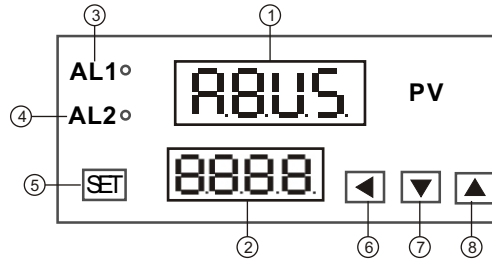
To avoid using this instrument in environment full of dust r caustic gas.

To avoid using this instrument in environments of strong shock or concussion.

To avoid using this instrument in environment of overflow water or explosive oil.

Output should start in about 10 seconds after power on when the instrument has control output function.

Display Panel



| S. No. | Panel | Specifications |
|--------|-------|--|
| 1 | LED | Up: measuring value/parameter code display |
| 2 | LED | Down: parameter value/input code display |
| 3 | AL1 | Alarm 1 indicator lamp |
| 4 | AL2 | Alarm 2 in dicator |
| 5 | SET | Parameter select/set key |
| 6 | ◀ | Shift key |
| 7 | ▼ | Decrease key |
| 8 | ▲ | Increase key |

Input Signal Selection

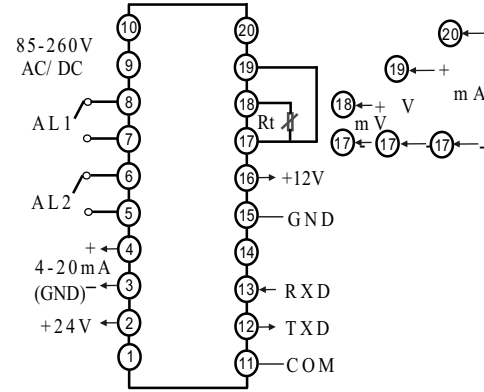
| Input signal | Measuring range | Input impedance | Factory setting |
|--------------|-------------------------------|--------------------------------|-----------------|
| mA | 0 ~ 1mA 0 ~ 20mA | < 150 | 4 ~ 20mA |
| V | ± 10V | < 200K | 0 ~ 5V |
| mV | -20 ~ 100mV | < 2M | 0 ~ 50mV |
| Rt | 0 ~ 400Ω 0 ~ 1K 0 ~ 10K | < 0.2mA < 0.15mA < 0.1mA | 0 ~ 400 Ω |

Application: The unit can be applied 2-wire transmitter, 4-wire weighing sensor, and other instruments that can also mA, mV and V...

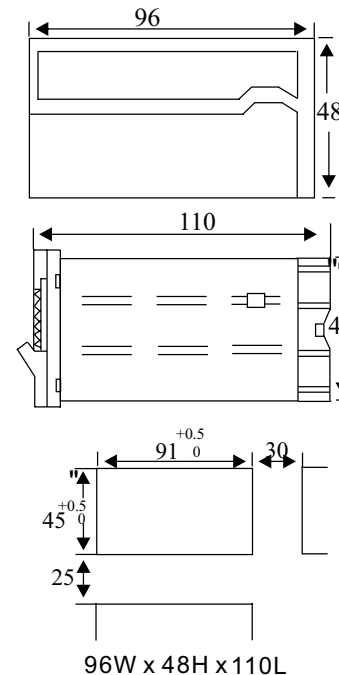
Parameters

- 1) Input signals mA, V, mV and RT selected by software.
- 2) 2 relay alarm output free setting, capacity AC 250V/3A.
- 3) Isolate analogue output, range free setting.
- 4) Auxiliary output power supply 24V/12VDC max 30mA.
- 5) With RS485 communication.
- 6) Accuracy: 0.25%FS more or less.
- 7) Power supply: 85~260V AC/DC, consumption less than 5VA.

Connections



Dimensions



Key Operation Instruction

1. Press SET key selecting the alarm mode or setting menu. Pressing ◀key to shift to the digit that to be modified. LED flashes, press ▼/▲ key to modify, then press SET key to confirm.
2. In the menu of alarm mode, press SET key to select LCK, when the value is 000 or 010, press SET key for 3 seconds, entering the adjust menu. (The operation of other parameters is the same.)
3. The unit will return to measuring estate without key operation for 25 seconds.

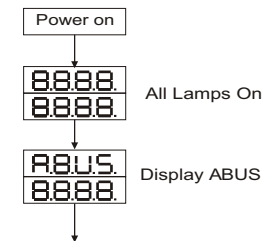
Ordering Details

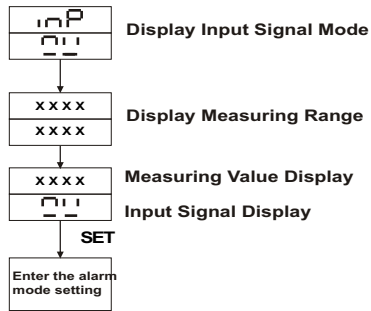
| TYPE | | DESCRIPTION |
|---------------|----|--------------------|
| Product | S | Process Indicator |
| | V | 85~265 V AC, 50 Hz |
| Size | 8 | 48 x 96 x 112 mm |
| Output | R | Relay Output |
| | D | 4~20mA DC Output |
| Alarm | B | 1 Alarm |
| | C | 2 Alarm |
| Communication | 10 | None |
| | 18 | RS-485 |

Example: SV > 8 > D > C > 10

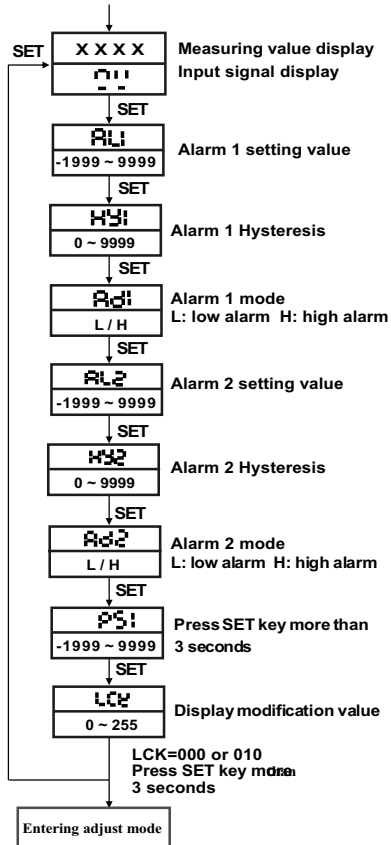
Operation Process

Power supply and self-examination



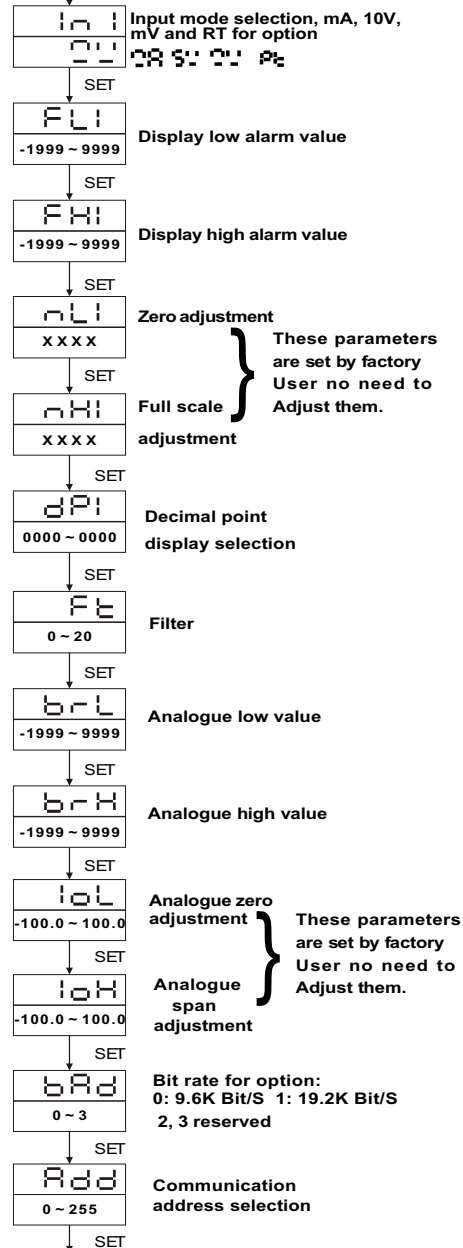


Alarm Mode Setting



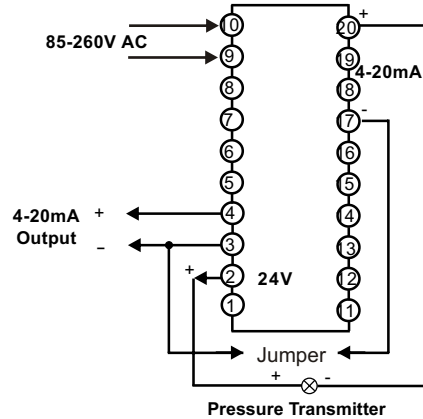
Note: LCK=010, it means the parameters are for read only, they can not be written.

Adjust Setting Mode

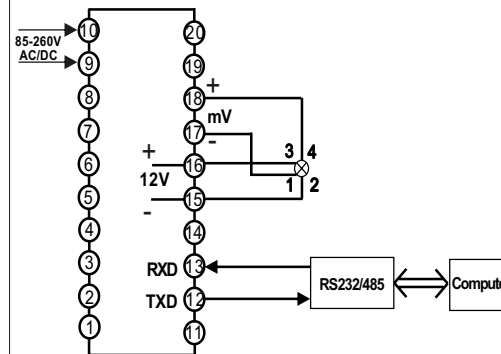


Example for Usage

1. To connect with 2-wire pressure sensor, with DC 24V/30mA auxiliary power supply, isolate analogue output. The sensor output is 4~20mA.



2. To connect with weigh impedance pressure sensor, with DC 12V/30mA auxiliary power supply, and can be connected to the computer. The sensor power supplied is 2mV/V.



Troubleshooting

- : It specifies sensor not connected or the input signal is low. Check and connect the sensor correctly or reset the low alarm value.
- : It specifies sensor not connected or the input signal is high. Check and connect the sensor correctly, or reset the high alarm

Cautions

- The unit must be heated for 15 minutes with power on before use.
- Use in ambient temperature of 0-40°C, humidity less than 85% R.H.
- The unit alignment interval time is one year.
- Avoid vibrations or shock, excessive dust, corrosive chemical materials or gas.
- If the input signal is super imposed with high frequency noise, use a low-passed filter.
- Input wire should not be too long. If measured signal have to be far away from the unit, please use 2-core shielded cable, and connect its shield larger to the LO side of the signal source.
- If the unit won't be used for long time, connect power supply every three months, not less than 4 hours each time.
- Long time for storing the unit should be in the shade, with temperature of ~10°C to 70°C, humidity less than 60%. Should not have any contact with organic solvents or oils.

Authorised Distributor :