

SF Serials Intelligence Flow Integrating Instruments

Technical Datum

INPUT SIGNALS

- Analog Input: Resistance PT100
- Voltage 0~5V, 1~5V or mV
- Current 0~10mA, 4~20mA or 0~20mA Thermocouple K, E
- Pulse Input: Wave Rectangular, sine or triangle wave
Amplitude More than 4V (or specified by user)
Range 0~5KHz
- Switch Input: Start, stop or reset
Amplitude Input isolated by Photoelectric Generator >4V

OUTPUT SIGNALS

- Analog Input: 0~10mA, 4~20mA, 0~5V, 1~5V
- Switch Input: Relay controlling output (AC220V/3A, DC24V/5A, Resistance load)
- SCR (silicon controlled) output 400V/0.5A, SSR (solid relay) output 6~9V/50mA
- Feed output: DC24V/30mA
- Communication: 2-wire, 3-wire, or 4-wire systems, baud rate is changeable

PRECISION

- Display precision for measuring: 0.2%FS ± 1 digit or 0.5%FS ± 1 digit
- Transforming precision for frequency: ± 1 pulse (LMS), better than 0.2%

DISPLAY METHOD

- 0~9999 display instant flow measured value, 0~999999999 display accumulated flow value, 1999~9999 display measured value of temperature compensation, 1999~9999 display measured value of pressure compensation, 1999~9999 display measured flow, pressure or frequency value, display date and time
- Display LED working state (high-light LED display or LED display with backlight)

CONTROLLING METHOD ON/OFF with back-difference

PRINT CONTROLLING Directly connect with various types of serial micro-printer. Communicating method is RS-232.

PRINT PRECISION The same as the measuring precision of instrument.

ALARMING METHOD Can select the alarm output of relay high and low limit with LED indicating alarm..

QUANTITATIVE CONTROLLING METHOD

- Can select relay controlling with LED indicating output when the getting the set flow value. Can select relay controlling quantitative flow process with LED indicating output.

ALARM PRECISION ± 1 digit

COMMUNICATING METHOD

- Bi-directional serial communicating, such as RS-232, RS-422, RS-485 and so on.
- The baud rate (300~9600bps) can be arbitrarily set by setting internal parameter.
- The system adopts principal and subordinate communicating method as to realize communicating of multi SF instruments with microcomputers

SETTING METHOD Faceplate key touching setting digits. Keep set values permanently if power is broken.

- Lock set parameters by password.

PROTECTING METHOD

- Auto reset by programming if the voltage is too low. Auto reset by programming if the operation is abnormal (Watch Dog). Since power is broken keep the accumulated flow value for more than two years and keep set parameters permanently.

USING ENVIRONMENT

- Ambient temperature: 0~50°C Relative humidity: ≤ 85%RH
- Power supply: AC 220V ± 15% (50Hz ± 2Hz)
- AC 90~260V (switch power) DC 24V ± 2V (switch power)
- Get rid of strong corrosive gas

POWER CONSUMPTION:

- ≤ 5W (AC 220V power supply), ≤ 4W (AC 90~260V switch power supply),
- ≤ 4W (DC 24V power supply)



Outline Dimension

