

# ***HART to MODBUS Converter (Universal type)***

## ***Model: SM100-HART***



### **Description:**

SM100 series HART intelligent converter is a product developed by ARM microprocessor, HART protocol modulation and demodulation dedicated chip combined with a large number of practical experience. Designed according to industrial product requirements, with high reliability and stability. The intelligent converter is equipped with standard RS232 interface and RS485 interface, which can transparently transmit data with HART protocol smart meter or read data with MODBUS\_RTU protocol to ensure real-time data transmission. The HART protocol uses the Bell202 Frequency Shift Keying (FSK) standard to superimpose a modulated digital signal on a 4-20 mA basis, allowing the HART protocol meter to allow bidirectional data communication without interfering with 4-20 mA analog signals. The SM100 series of intelligent converters are intelligent converters for bidirectional modulation and demodulation of digital and analog signals.

### **Features:**

1. Equipped with standard RS232 and RS485 communication interfaces, parameter configuration, communication baud rate and parity can be changed, which is independent of 1200 communication speed on HART bus, thus improving the running speed of the whole system.
2. It adopts the industrial common module housing for easy installation and debugging.
3. Equipped with special configuration software, through SM100 series intelligent converter, can communicate with HART protocol smart meter, and configure parameters of intelligent converter
4. Support the standard MODBUS\_RTU protocol.
5. Support multiple HART protocol smart meters at the same time.
6. Support a variety of special HART protocol smart meters, and can customize the HART instrument special HART protocol instructions.

### Specifications:

1. Power Supply: DC12—24V: The ripple of the power supply must not exceed 200mV, and the current should be 100mA.
2. Working Temperature: -20 ° C - 80 ° C.
3. Relative Humidity: 10% - 80%.
4. Physical Dimensions: 13.4x7.2x4.2cm

### More Detailed Photos:



*Made in China*