PT20SR-3783 Intelligent Digital Pressure Transmitter

Features

- RS485 Communication Interface(standard MODBUS-RTU protocol)
- Netting Available
- Support software or button adjustment, flexible and convenient
- Classified code management for parameter set of different users to ensure safety and reliability
- Great output consistency and replaceable.....
- Support offset set and range adjustment
- Aluminum alloy housing and IP65 protection
- Support cutomized solution according to different applications

Introduction

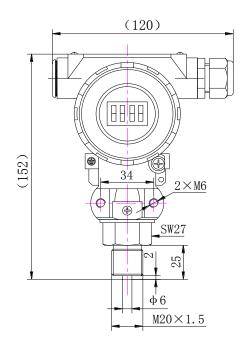


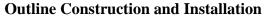
PT20SR-3783 is a high stable intelligent digital pressure transmitter, support real-time pressure measurement and display. It uses intelligent processing circuit, the most advanced design and manufacture technology of piezo-resistive pressure transmitter, and is available for pressure signal and temperature signal output that in accordance with standard MODBUS-RTU protocol. It can be used in environmentally poor outdoor area and in applications which requires on-site pressure display, zero set and range adjustment. It is suitable for process control and pressure measurement in petroleum, chemical, metallurgy, electric power, light industry, textile, building materials, hydrogeology, food, medicine, environmental control and other industries.

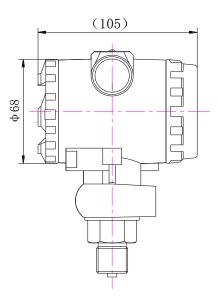
| Specification Range: -100kPa0kPa~10kPa100MPa | | | | | | | |
|--|--|--|--|--|--|--|--|
| | Pressure type: Gauge / Absolute/Sealed Gauge | | | | | | |
| | Over pressure: 1.5 times FS / 110MPa (min. value is valid) Accuracy: ±0.5%FS | | | | | | |
| | | | | | | | |
| | Stability: ±0.3%FS/YEAR Hysteresis: | | | | | | |
| | Thermal error: $\leq \pm 0.04\%$ FS/°C(≤ 100 kPa); $\leq \pm 0.03\%$ FS/°C(> 100 kPa) | | | | | | |
| | Power Supply: 9V~28V DC | | | | | | |
| | Output: RS485 Interface (MODBUS-RTU protocol) | | | | | | |
| | Display: 4 digit 0.36" Nixie Tube | | | | | | |
| | Display Range: -1999~9999 | | | | | | |
| Working Temperature: -10°C~60°C | | | | | | | |
| Limit Working Temperature: -30°C~85°C | | | | | | | |
| Storage Temp.: -40°C~85°C | | | | | | | |
| Measurement Error: $\pm 2^{\circ}$ C(For "temperature & pressure type" only) | | | | | | | |
| Insulation: 100V, 100M | | | | | | | |
| Shoc: 5g, 10Hz~200Hz | | | | | | | |
| Impact: 20g, 11ms | | | | | | | |
| Protection:IP65 | | | | | | | |
| Weight: about 900g | | | | | | | |

Note:1. Shrinking range is 1/5 of basic range, no range extension

2. For special temperature requirement, please feel free to contact our company



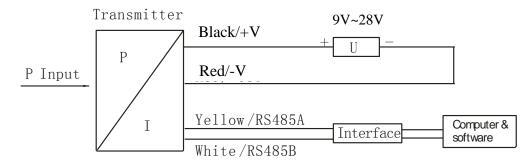




Electric connection

| Terminal | Definition |
|------------------|------------|
| +/A | V+ |
| -/B | V- |
| Ľ _A - | 485A |
| Ľ_A. | 485B |

Electric connection for transmitter with RS485 interface(MODBUS Protocol):



Assistant Software

RS232/485 Conversion module is used to communicate with RS485 interface transmitter, available for real time pressure/temperature display and calibration on site. Some parameters calibration was done before being transported at factory, so users do not have to modify them. When mistaken operations happen, users can press "Back to Factory Setting" to turn it to factory setting. Besides, the software keeps Data Record section, which allow users to set the record interval freely for recording and saving data, and the data can be saved in the forms of "*.Excel".

PT20SR-3783 Intelligent Digital Pressure Transmitter(v1.1)

| Intelligent Transmitter User Softwa | are(ModbusRTU) | |
|---|----------------------------|---------------------|
| Port Info | | Record Info |
| PortNum: COM4 V Baud Rate: 9600 V | Addr: 12 • W | Record Time Setting |
| Parameter Setting | | , _, _, _, |
| Dec Point: 000.0 V W Unit : Kpa V | P Type: Absolute | Start Stop |
| Version: VR1.02 ID No : 1602 | Date : 1710 | |
| | | Record Num: 0 |
| P Parameter Setting | T Parameter Setting | |
| Collection: 33 Collection ON/OFF | Collection: 26 | Save |
| Range Zero: 0000 ¥ Collection Zero: 25 R | Range Zero: 0 w | |
| | Range FS: 500 W | V |
| Range Mid: 2500 W Collection Mid: 6547 R | Collection Zero: 15977 R | |
| Range FS : 5000 ¥ Collection FS : 13094 R | Collectin FS : 11881 R | |
| | | Search |
| - | e: 19.5℃ ● 🕫 Show 02 | Exit |
| Functional | | |
| Read User Save Return to Specifica tion | T Previous ↓ Next | |
| COM 4 Baud Rate: 9600bps | Online number: 1 2017-7-21 | PE 01:10:45 |

Note: PT20SR-3783 Transmitter software, available for download on our website, <u>www.zoricreato.com</u>; Please click "specification" button on the interface for software use instruction.

Order Guide

| PT20SR-3783 | Intelligent Digital Pressure Transmitter | | | | | | | | |
|-------------|--|----------|--|-----------------------|------------------------------|------------------------------|----------|--|--|
| | Range | -100kPa | -100kPa····0kpa~10kPa···100MPa | | | | | | |
| | $[0 \sim X]$ kP or MPa | X is act | X is actual measured range | | | | | | |
| | | Code | Code Output Signal | | | | | | |
| | | R8 | RS485 interface, MODBUS communication protocol | | | | | | |
| | | | Code Construction Material | | | | | | |
| | | | | Diaph | ıragm | Pressure Port | Housing | | |
| | | | 22 | S. | S.316L | S.S. | S.S. | | |
| | | | 24 | S. | S.316L | S.S.316L | S.S.316L | | |
| | | | | Code | Oth | Others | | | |
| | | | | C ₁ | M20×1. | M20×1.5 male, face type seal | | | |
| | | | | C ₃ | G1/2 male | | | | |
| | | | | C ₅ | M20×1.5 male, waterline seal | | | | |
| | | | | PC ₁ | Flush, M20×1.5 Male | | | | |
| | | | | PC ₃ | Flush, G1/2 Male | | | | |
| | | | | G | Gauge | | | | |
| | | | | А | Absolute | | | | |
| | | | | S | Sealed Gauge | | | | |
| | | | | | | | | | |
| PT20SR-3783 | [0~100]kPa | R8 | 22 | C1G | | Whole Specs. | | | |

Notes

1.Please note in the order if the user needs zero pressure as negative pressure.

2. The temperature signal is optional, please note in the order if users need.

3.For special requirement, please feel free to contact us.