

## SM39PCRD Wired digital pressure transmitter

### Description

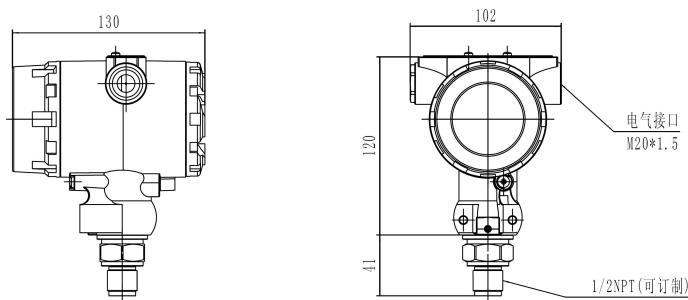
SM39PCRD explosion-proof pressure sensor features high accuracy and high stability. The sensing element uses American raw materials and BH series foil strain gauges produced with proprietary processing technology from BEAN Company (USA) as the force-to-electricity conversion component. The transmitter (amplifier) employs a high-precision, low-drift instrumentation amplifier as the main amplification device, with specially selected feedback components. Overall temperature coefficient is excellent, solder joints are minimized, the unit is compact, and shock resistance is high. Integrated temperature compensation technology applies precise compensation to the signal, which is then amplified and converted into a standard 4 – 20 mA or 1 – 5 V output. It interfaces directly with DDZ-III or DDZ-S series instruments, industrial computers, or distributed control systems to enable automatic measurement and control in production processes. Widely applicable in petroleum, chemical, metallurgy, power, light industry, building materials, research, and other fields. It is the preferred product for industrial process control.

### Characteristics:

- Rugged all-stainless-steel construction
- High accuracy and excellent stability
- Wide temperature compensation range
- 316L stainless-steel isolation diaphragm allows direct contact with corrosive media (gas, liquid, steam)
- Standard 4 – 20 mA two-wire output; power supply polarity-free
- Standard span range: 1 – 200 MPa
- Compact, lightweight, easy to install, fast response

### Dimensions

(In mm. 1mm=0.03937 inches)



### Circuit Diagram :

(1) RS485: Pin 1 - V+, Pin 2 - V-, Pin 3 - 485\_A,  
 Pin 4 - 485\_B.

(2) 4 - 20 mA: Pins 5 & 6; power and signal are polarity-free.



#### Specification :

Type	Technical parameters
Nominal load range	0 ~ 60 Mpa
Sensitivity	4~20mA & RS485
Class precision	0.5%FS
Zero Balance	≤0.1%FS
Power supply	24 VDC
Effect of temperature	0.3%FS/10°C
Operating temperature	-40°C ≤ Tamb ≤ +65°C
Safe Load Limit	120% FS
Protection type	IP67 (IEC60529)
Pressure interface	NPT1/2" (M) 、 R1/2" (M) 、 M20*1.5(M)
explosion-proof sign	Ex d IIC T4 Gb
Explosion-proof number	CE13.1220