# Air Pressure Regulator QTY2

QTY2 Series Air Pressure Regulators utilize the diffusion silicon piezoresistive effect to convert pressure into an electrical signal. This signal is then processed through amplification, upper/lower limit comparison, and logic circuits to control the blower’ s electric valve and regulate pressure accordingly. The product offers high sensitivity and strong reliability, and it is widely applied in railway locomotives of various international standards.

## Parameters

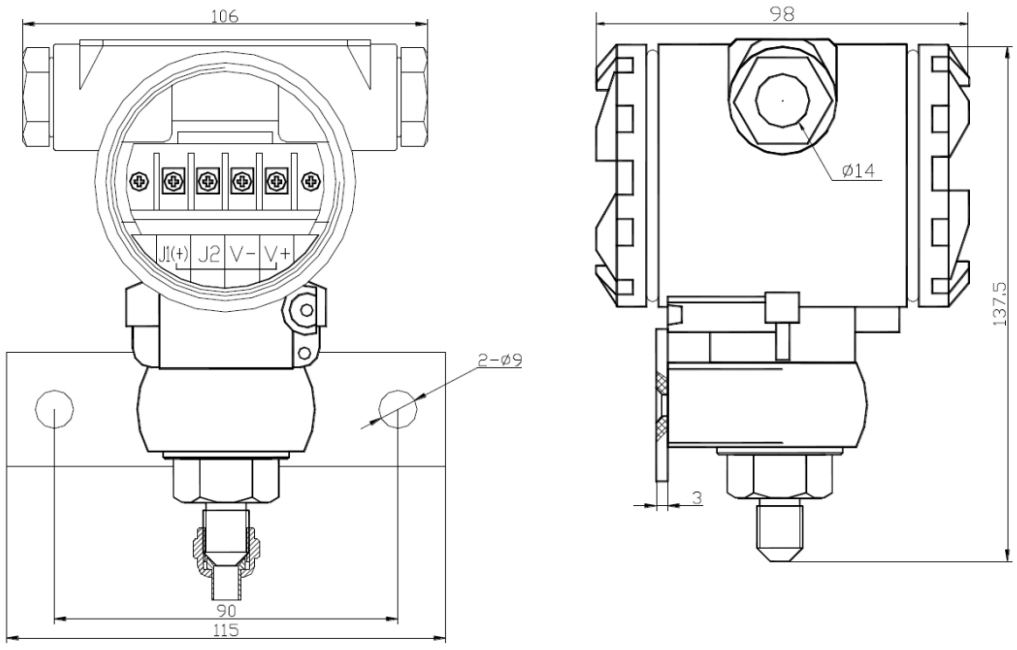
### Operating Parameters

- Power Supply: 110VDC±20%
- Current Consumption: Approx. 20mA (relay released)
  Approx. 30mA (relay engaged)
- Upper Limit Pressure: 900kPa±10kPa
- Lower Limit Pressure: 750kPa±10kPa
- Relay Operating Voltage: 110VDC
- Relay Contact Current: Rated 5A, maximum 30A
- Maximum Switching Cycles: 100,000 operations
- Operating Temperature: -25~70℃
- Relative Humidity: ≤90%

### PIN Configuration

| | | | |
|---|---|---|---|
| V+: | +110VDC | J1: | BCV Coil Terminal 1 |
| V-: | –110VDC | J2: | BCV Coil Terminal 2 |

## Outline & Interface




## Notes

- Ensure that the operating conditions do not exceed the specified technical limits.
- Routing of the power cable should avoid high-voltage lines to prevent signal interference.
- Before operation, verify that the pipeline is unobstructed and free of leaks, and confirm the wiring is correct to ensure stable and accurate performance of the regulator.