

## VPT2 electric valve position transmitter manual

### Summary

VPT2 valve position transmitter with two-wire system forms, is characterized the valve real-time opening from 0 to 100% by 4 ~ 20mA current. It convenient for the upper control system to monitor, and supporting the use of the company' electric devices; Dimension is showed in figure1.

### Technical parameters

operating voltage:  $24 \pm 2\text{VDC}$       Valve position potentiometer resistance:  $560 \Omega \sim 2\text{K}\Omega$

Load Impedance  $\leq 250\Omega$       Output Current: 4~20mA

Output linearity error  $< 0.5\%$

### Installation

1. The valve position transmitter is installed in appropriate location of electrical equipment ;
2. Connected the valve position potentiometer center termination to the M-side of valve position transmitter, connected the valve position potentiometer fully closed termination to the Z-side of valve position transmitter , and connected the valve position potentiometer fully open termination to the F-side of valve position transmitter;
3. The DC24V power supply, ammeter connected in series, then connect to the +, - terminals of the valve position transmitter (DC24V power supply 4 ~ 20mA current);

### Calibration and adjustment (Note: Zero point calibration and adjustment before full-scale calibration and adjustment)

1. **Normal:** Plugged in, if the indicator light that the VPT2 module into the normal state automatically.
2. **Zero calibration and adjustment:** In the normal fully closed the valve, in this case the valve position potentiometer resistance is minimum between M and Z, pressed and hold the SET button for 5 seconds, in this case the indicator light flashing once, and repeat the flashing, that zero has been calibrated, ammeter should show 4mA; At this time , the valve position transmitter go into fine-tuning state. If the zero (4mA) output is not allowed, then press a button to "reduce"; Double-click the button to "add" until the exact date appear.

3. **Full-scale calibration and adjustment:** In the normal fully opened the valve, in this case the valve position potentiometer resistance between M and Z is max, pressed and hold SET button for 5 seconds that the light chain lightning twice, and repeat The flashing proving full-scale calibration has been done, and ammeter should show 20mA. At this time, the valve position transmitter go into the fine-tuning state. If the full scale (20mA) output is not allowed, then pressed a button to "reduce"; Double-click the button to "add" until the exact date appear.
4. **Return to normal:** Pressed and hold the button for 5 seconds to return to normal, then the light is bright; If not pressed the button continuously for 30 seconds, then automatically return to normal.

**Note:** In the flashing light that the transmitter at the pre-calibrated fine-tuning state; If need not adjustment, should be out of adjustment status. (Fine-tuning state "plus" operation: continuous pressing of two (as double-click) at intervals of <math><0.6s</math>, while the interval between the second double-2S)

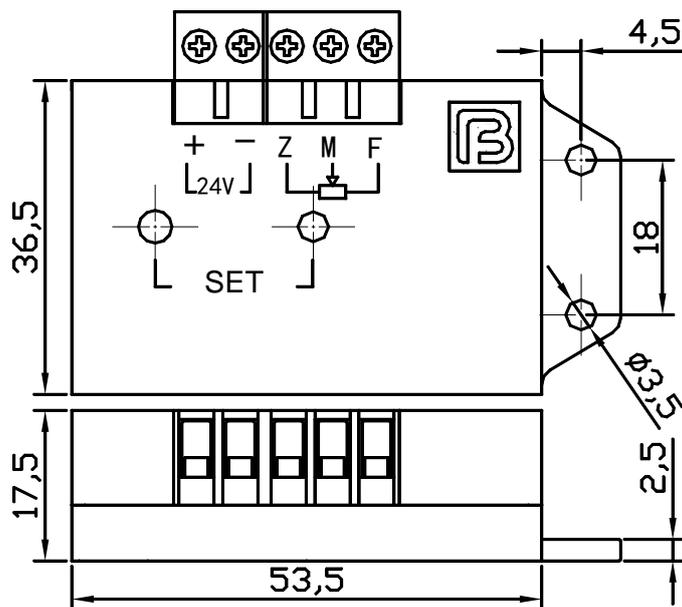


figure1

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