POTENTIOMETER or TRANSMITTER

VR Series Option

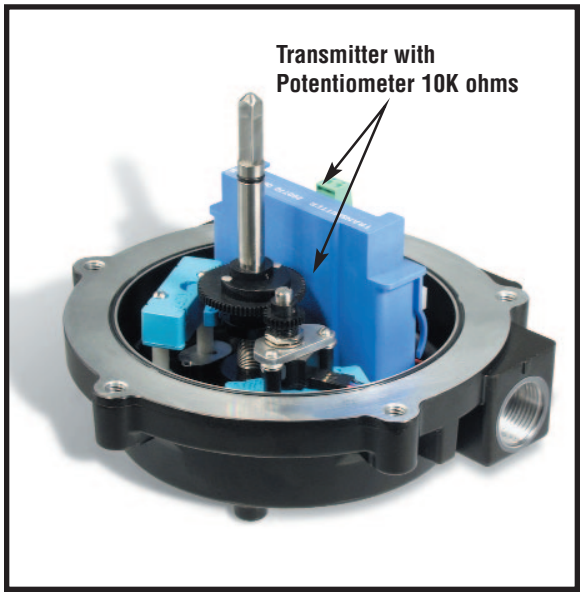
Features

Potentiometer

- 0 to 1000 ohm resistive outputs to control system, proportional to the process valve position.

Transmitter

- 4-20mA signal outputs to control system, proportional to the process valve position.
- Easy calibration of transmitter with on-board LED and calibration button.
- Gear drive mechanism located above switches for easy access and adjustments (for 0-10Kohms potentiometer).
- All transmitters are rated for use in intrinsically safe or non-incendive areas.
- Fully encapsulated transmitter circuit board for environmental protection.
- Clockwise or counter-clockwise operation with reversible signal outputs.



Electrical

Potentiometer Specifications	
Shaft Rotation Range	0-95˚
Resistance	0-1000 ohms
Full Scale Tolerance	± 100 ohms
Linearity	± 2.0%
Rotation	300˚
Terminals	12 pts for pot/switches/accessories

Transmitter Specifications	
Shaft Rotation Range	0-95˚ (45˚ minimum)
Input Voltage Range	8-38 VDC
Potentiometer Resistance	0-10,000 ohms
Output Signal Range	4-20mA DC
Load Impedance Range	0-800 ohms at 24 VDC
Output Impedance	25 M ohms (typical)
Offset Error at 4mA	± 20 µA (max)
Offset Drift	± 500 µA /˚C (max)
Span Error at 20mA	± 40 µA (max)
Span Drift	± 1000 µA /˚C (max)
Linearity	± 2.0%
Hysteresis	1.0% of full scale
Repeatability	± 0.3% of full scale
Input Voltage Effects	2 µA/V (typical)
Calibration	Auto-setting via pushbutton
Indication	Red LED (variable brightness with position)
Terminals	2pts for 4-20mA + 8pts for switches/accessories

How to Specify

Potentiometer option - RW
(0-1000ohms resistive output)

Transmitter option - TY
(4-20mA signal output)

Ordering Example
VR8B2YAT2RWA
VR8B2YAG2TYA
VR8B2YANOTYA (without switches)