

ANALOG VALVE POSITION TRANSMITTER

Model Q / BUS004J

The Analog Ultrasonic Valve Position Transmitter is an accessory that enables remote signaling of the opening rate of BERMAD control valves. It features an easy-to-set ultrasonic sensor that measures the movement of the valve position indicator without mechanical contact. This transmitter is suitable for BERMAD 700 and 800 Series. Three assemblies are available to cover various valve sizes.

Features

- Simple programming and calibration
- Easy on-site assembly
- Corrosion-resistant construction
- Vibration-resistant technology



Principle of Operation:

Ultrasound is a high-frequency oscillation emitted by the sensor, reflected off the measurement object, and received back as an echo. The sensor calculates an analog 4-20 mA output signal proportional to the distance between the sensor and the cam attached to the valve indicator based on the travel time of the sound.

Technical & Electrical Data

Operating Voltage: 20-30V DC

Analog output: 4-20mA

Protection: IP67

Accuracy: $\leq 2\%$

Reproducibility: $0.15 \pm$

Control: Teach-in push-button

Temperature: -13 to +158°F

Blind zone: 0.787 inch

Operating Range: 5.906 inch

Indicators:

LED green (operation)

LED yellow (state of output)

Construction Materials

Housing: Steel, Epoxy Fusion Bonded Coated

Metal parts: Stainless Steel 316

Ultrasonic transducer: Polyurethane foam, epoxy resin with glass content

Sensor housing: ABS