

# **DB537**

Analog 2-wire Transmitter for Potentiometer Input



DB537 is designed for input signal from potentiometers and has an adjustable measuring range from 100  $\Omega$  up to 100  $k\Omega.$ 

The unit has a very short response time, which makes it ideal for valve and actuator feed-back.

DB537 provides an output signal, 4-20 mA, that is easily matched to the end positions of a valve or an actuator.

- Potentiometer input in 3-wire connection
- Adjustable for measuring ranges from 100  $\Omega$  to 100  $k\Omega$
- 4-20 mA output
- Ideal for valve and actuator feed-back due to short response time (~100 ms)
- Front potentiometers for matching the output signal to the working range of the valve or actuator
- Test output connection without breaking the loop
- Plug-in terminals simplifies connection and disconnection
- DIN-rail mounting

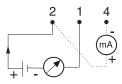
# Specifications:

Input Potentiometer	3-wire connection	Ranges: 0-100, 0-200, 0-500 to 0-100 000 Ω
Factory set range		0-1000 Ω
Range adjustment		Soldering pads, switches and front potentiometer
Sensor current		3 mA
Output Current		4-20 mA
Operation temperature		-20 to +60 °C / -4 to +140 °F
Galvanic isolation		No
Power supply		12.035.0 VDC
Typical accuracy		± 0.2 % of span
Mounting		Rail acc. to DIN EN 50022, 35 mm

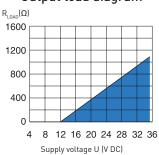
# Input connections



# **Output connections**

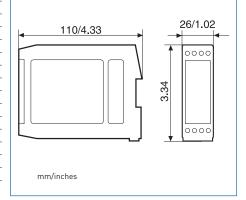


#### Output load diagram



R<sub>LOAD</sub>=(U-12)/0.022

#### **Dimensions**



#### Ordering information

DB537, 0-1000 Ω	51M0E00005
Configuration for other range	70CAL00001

