

JUXTA D Series

General Specifications

Model DS1
POT Transmitter

JUXTA

1. General

This DCS correspondence nest stored type signal conditioner converts resistance change of potentiometer fitted in motor operated valve or air duct damper, etc. to current or voltage signals.

- Incorporation of one-chip microcomputer provides high efficiency and superior performance.
- Setting of full resistance value of potentiometer, burnout setting, zero and span adjustment, I/O monitoring, etc. can easily be made even in the field by upper system or handy terminal.

2. Specifications

Input & Output	
Input signal	Potentiometer resistance change (3 wire type)
Measuring range	Full resistance : 100~2000Ω
Zero elevation	Within 50% of full resistance
Span	80~2000Ω (50% or more of full resistance)
Input conductor resistance	150Ω or less per wire. (resistance of each wire must be equal)
Measuring current	1mA
Ch1 output signal	1~5V DC
Ch2 output signal	DC voltage or current signal (In case of current output, output is available only either from front terminals ③~④ or connector)
Zero point adjustment range	±10% of span
Span adjustment range	±10% of span
Standard Performance	
Accuracy rating	±0.1% of span
Response speed	200ms 63% response (10~90%)
Burnout	Specify UP, DOWN or OFF. Burnout time : 60 seconds or less
Insulation resistance	100MΩ or more (at 500V DC) between input~output, input~power supply and output~power supply
Voltage withstand	1500V AC/minute between input~output, input~power supply 500V AC/minute between output~power supply
Ambient temperature and humidity	Normal operating condition : 0~50°C, 5~90% RH Operating limit : -10~60°C, 5~95% RH Storage condition : -10~70°C, 5~95% RH (no condensation)
Power supply voltage	24V DC±10% (ripple content 10% p-p or less)
Effect of power supply voltage fluctuation	±0.1% or less of span per 24V DC±10% fluctuation
Effect of ambient temperature change	±0.2% or less of span per 10°C temperature change
Current dissipation	24V DC 85mA (4~20mA DC), 50mA (1~5V DC)
Mounting & Dimension	
Boards	Both sides glass-epoxy
Mounting method	Store in exclusive nest (signal·power supply be connected through back board and connector)
Wiring	External wiring : Connect to terminal M4 screw of input/output of exclusive nest. Connection to I/O card: By exclusive cable (connector)
External dimension	130.6 X 23.6 X 126mm (HxWxD)
Weight	About 120g
Accessories	
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