

Laurel Quad Loop Splitter/Transmitter

Drive multiple devices from one signal

- Accepts 4-20mA, 1-5V, 0-5V or 0-10V Input
- Four Independent 4-20mA Outputs
- Remote Output Grounds Can Differ By Up to $\pm 10V$
- Indicator LED for Each Connected Output
- Loop Current Test Point for Each Output (200mV=20mA)
- Front Panel Zero and Span Adjustments for Each Output
- AC or DC Powered

QLS
CE


SPECIFICATIONS

Input Signal:	4-20mA, 1-5V, 0-5V, 0-10V (jumper selectable)
Input Resistance:	4-20mA: 50 Ω , 1-5V: 412k Ω , 0-5V: 464k Ω , 0-10V: 935k Ω
Transmitter Excitation:	24Vdc, 30mA max
Signal Outputs:	4-20mA
Signal Isolation:	Input and output grounds can be the same or differ up to $\pm 10V$ from each other (input/output, output/output)
Voltage Compliance:	12V (600 Ω per loop at 20mA)
Zero & Span Adjust:	$\pm 10\%$ for each output with 25-turn potentiometers
Load Regulation:	$\pm 0.005\%$ of span from 0 to 600 Ω
Accuracy:	$\pm 0.02\%$ max span error at 23°C
AC Rejection:	90dB from DC to 60Hz
Response Speed:	2ms risetime, 7ms settling time to 0.1% of final value
Loop Indication:	Yellow LED lamp per loop, brightness proportional to current
Power Isolation:	Galvanic isolation from power to signals. 250V AC working, 1.0kV AC for 60 sec, 1.7kV DC for 2 sec
Power Consumption:	3.5W max, all loops delivering 20mA
Operating Temp.:	-40 to +70°C, <95% at 40°C (non-condensing)
Connectors:	Detachable plug-in screw-clamp connectors for 28-12 AWG wire
Mounting:	DIN rail, ventilaton holes at top & bottom. Leave 6 mm (1/4") between units, or force air with a fan
Dimensions:	22.5 x 103 x 128 mm (0.9" x 4.1" x 5.0")

Benefits of a Loop Splitter:

Load devices can share a common ground.

Each loop drives a single load, which reduces voltage compliance problems.

If an output loop opens, only a single device is affected.

If one device fails, other loops continue to operate.

Each loop can be adjusted to compensate for device inaccuracy.

ORDERING INFORMATION

QLS-1	Quad Isolated Output Loop Splitter/Retransmitter, 95-264 Vac (47-63 Hz) or 90-300 Vdc power
QLS-2	Quad Isolated Output Loop Splitter/Retransmitter, 10-48 Vdc or 12-32 Vac (47-63 Hz) power