CONTROL CONCEPTS

5340

Three Channel Voltage to Voltage Signal Conditioner

Description

The model 5340 is a signal conditioning circuit which accepts three input voltages and provides three output voltages each of which is proportional to the RMS value of the input waveform. In addition a 4th voltage output is provided which is proportional to the sum of the three individual outputs. The circuit also provides a regulated 5Vdc supply which is intended as a supply for digital panel meters used to display the output of the circuit.

The circuit is intended to be used to measure DC waveforms, sinusoidal waveforms or non-sinusoidal waveforms resulting from either phase-angle or zero–cross control. The output response due to a step change of the input is equivalent to an RC time constant of 4 seconds.

The circuit is 11.5 inches long by 3.2 inches wide and 1.9 inches deep and is intended to be mounted using the Snap-Trak provided with the circuit.

Specifications

Supply Voltage:

120Vac +10,-15%, 50/60 Hertz (10VA)

Input impedance:

1 Megohm.

Accuracy:

The output is accurate to within 2% of the RMS value of the input waveform.

Output current:

10mA continuous, Output is short circuit protected.

5Vdc output supply:

Voltage: 5Vdc ±0.25Vdc
Current: 25mA continous. Output is short circuit protected.

How to Order

5340-(INPUT)-(OUTPUT)-(PA or ZC)

5340	Specifies the basic three channel circuit
(INPUT)	Specifies the input voltage range. From 0 to 15Vac, up to 0 to 500Vac.
(OUTPUT)	Specifies the output voltage. 0 to 5Vdc, 1 to 5Vdc & 0 to 10Vdc are the choices.
(PA or ZC)	"PA" specifies that the circuit is intended for use on phase-angle controlled applications. "ZC" specifies that the circuit is intended for use on applications in which the load is controlled by zero-cross controllers. The response time for "PA" circuits is approximately 0.25 seconds. The response time for "ZC" circuits is approximately 4 seconds.

Manufactured by

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