COMPASS INSTRUMENTS

MODEL C347 FREQUENCY COMBINER

INNOVATION WITH DIRECTION

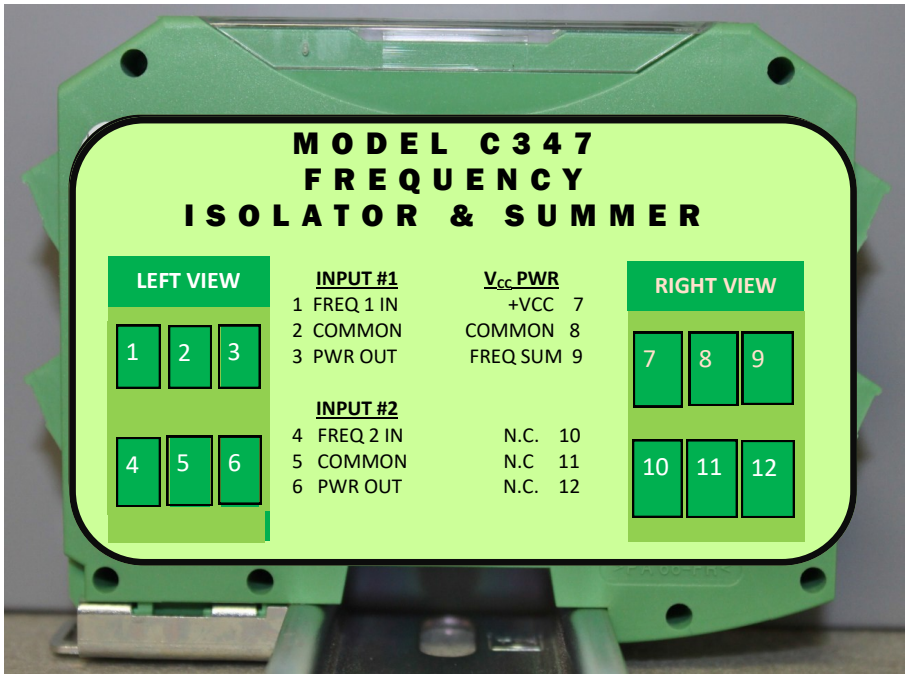
FLOW RATE SUMMER

FLOW RATE SUMMER—There are times when it is important to know the total combined flow rates from two different flow meters. This unit receives the raw frequency from two different sources, and outputs an isolated frequency equal to the sum of the two.

This also functions well when only one input frequency is present at any given time. In that case the output will be the same as the active input.

SPECIFICATIONS

FREQUENCY RANGE:	0 TO 10KHz
INPUT IMPEDIANCE:	1M OR GREATER
V_{CC}:	30 VOLTS
ISOLATION:	YES, 3 WAY
MOUNTING:	DIN RAIL



This unit provides the ability to sum two frequencies. The next page diagram shows a typical hook up. The measurement devices are referred to as flow meters, but they could also be optical encoders, or any other device outputting a frequency within range.

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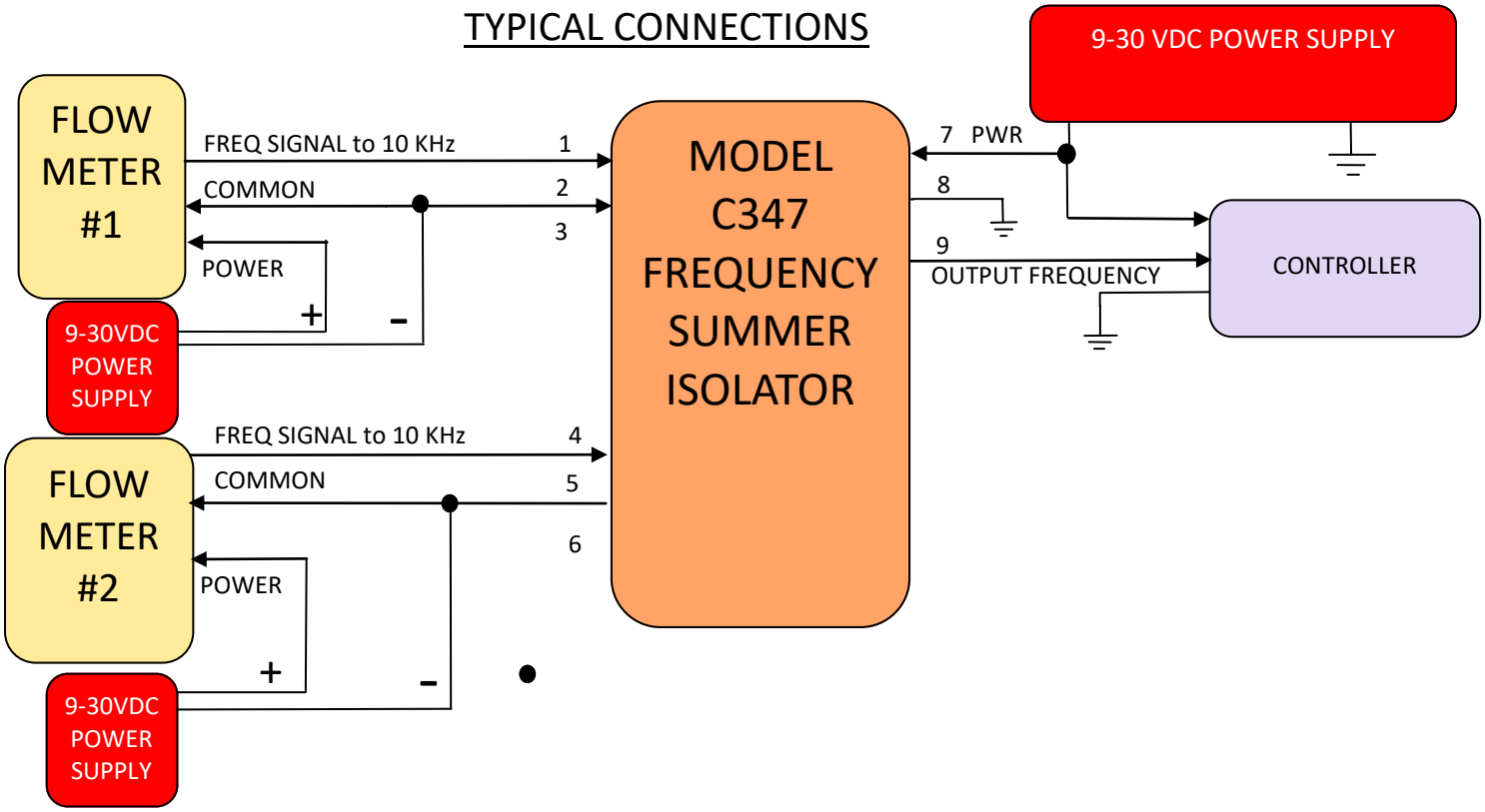
FLOW RATE SUMMER

TYPICAL CONNECTIONS



TYPICAL APPLICATION

Summing Flow Calculator Example:

In the this example, fluid is pumped from each tank through separate flow meters F1 and F2. The flow is then combined into one pipe line.

Connect F1 to input 1 and F2 to input 2.

The frequency output is representative of the total fluid being pumped through both flow meters. This is true even if you only have flow through one flow meter at a time.