

Application Notes





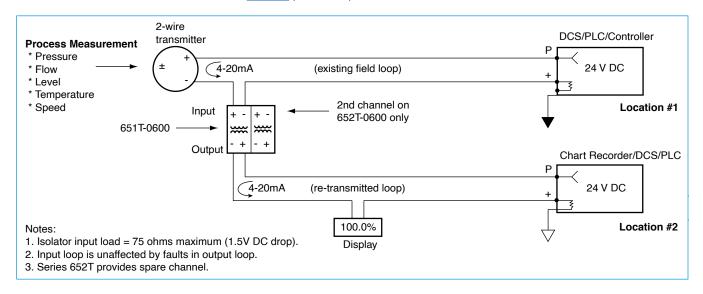


Application 1

Retransmitting a signal from a two-wire loop to a second location.

Solution

Use either a model <u>651T-0600</u> (single channel) or <u>652T-0600</u> (dual channel) transmitter.

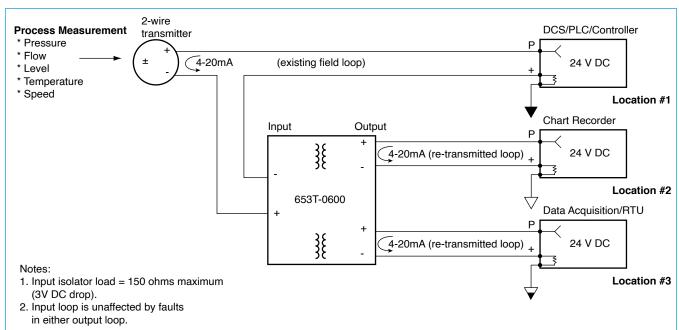


Application 2

Splitting a signal from a two-wire loop: two outputs for different locations.

Solution

Use either a <u>653T-0600</u> (single input, dual output) or <u>652T-0600</u> (dual input, dual output) unit.





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Application Notes







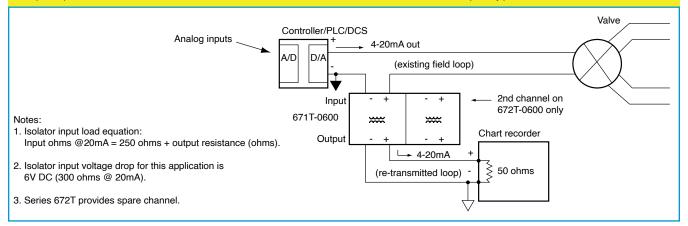
Application 3

Retransmitting a signal output from a controller or a D/A card.

Solution

Use either a model 671T-0600 (single channel) or 672T-0600 (dual channel) transmitter.

IMPORTANT: The 671T transmitter is an input loop powered current isolator. Its input voltage burden is normally a function of its output voltage drop and is computed as 4.9V+lout*Rout. If the output load resistance Rout is excessive relative to the input loop voltage, or Rout is open-circuited, the input voltage burden may increase up to the limit of available input loop voltage. Consequently, if there are any loop-powered transmitters connected in series in the 671T input loop, this output loop fault can pinch-off excess input loop voltage, reducing the available voltage to power any series-connected transmitters in the loop, potentially causing them to lose regulation of the input loop current. You could select a different current isolator than 671T, or a different series transmitter that is separately powered to avoid this fault condition.

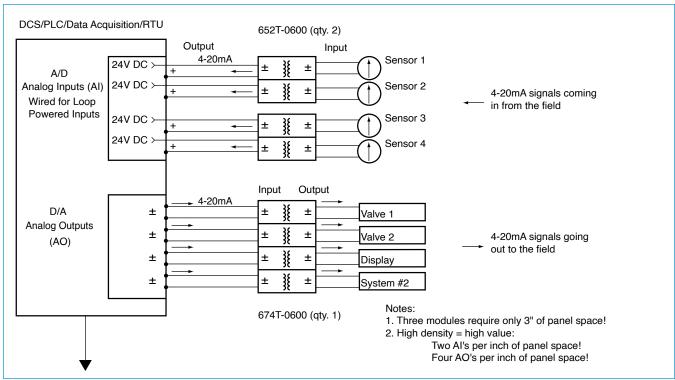


Application 4

Low-cost, channel-to-channel isolation of 4-20mA signals for controllers.

Solution

Use either a 652T-0600 (dual channel) for A/D cards or a 674T-0600 (quad channel) for D/A cards.







600T Application Notes





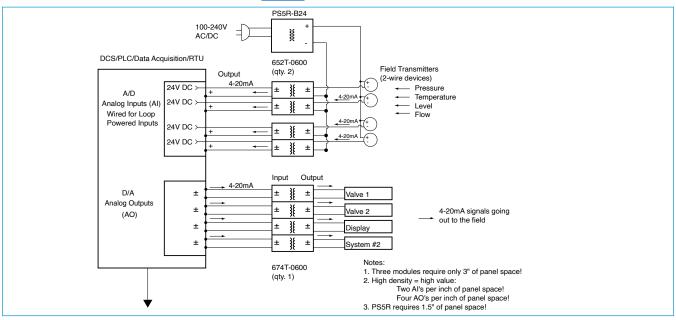


Application 5

Powering field transmitters (2-wire) and providing low-cost isolation of 4-20mA signals for

Solution

Model 652T-0600 Model 674T-0600 Model PS5R-SB24

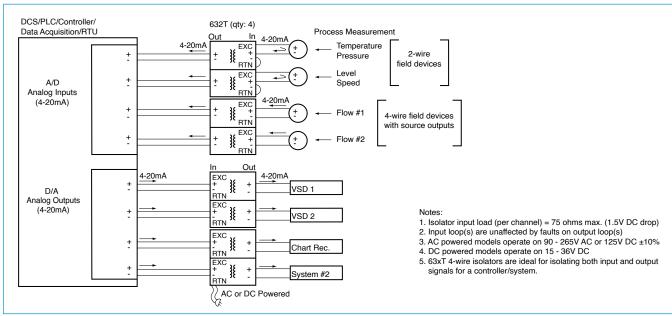


Application 6

Require 4-wire isolators for input and output signals for controller. Built-in excitation supply needed for some field 2-wire devices.

Solution

Model 632T-0100 (dual channel, AC powered) or Model 632T-0500 (dual channel, DC powered). Model 631T for single channel 4-wire isolators.







630T Application Notes







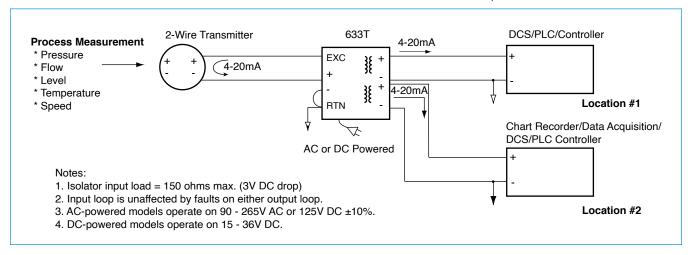
Application 7

Require a 4-wire isolator "splitter" to excite a field device and re-transmit 4-20mA to two locations.

Solution

Model 633T-0100 (AC powered) or Model 633T-0500 (DC powered).

Use additional 633T units for re-transmitting to more locations. Install inputs in series with primary 4-20mA loop or the re-transmitted loops as required.

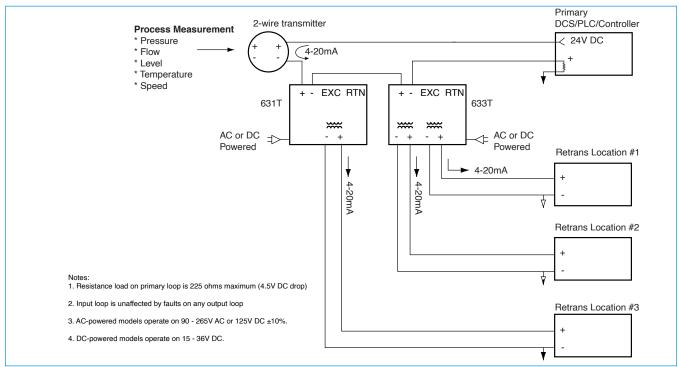


Application 8

Require 4-wire isolators to retransmit a 4-20mA signal to three locations.

Solution

Model 633T-0x00 (splitter) and Model 631T-0x00 (one channel isolator). (Where x = 1 or 5 for AC or DC power)





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