

Example 1 - Using a communications watchdog circuit to de-activate the control loop when communications to PLC is lost.

Real world example is where a customer wants to disable auto control mode if the communications does not update variable 2 in less than 60 seconds.

Demonstrates use of Timer, Counter, and Action Function blocks.

Theory of operation - Timer 1 is free running timer when Run signal is active. Timer 1 produces pulse when Time in seconds is reached providing reset to self and pulse to Counter 1. Counter 1 counts up for each timer pulse starting at Load Value and produces a pulse count when Target Value is reached. Counter will latch output and deactivate action function block. Variable 2 set as digital will keep resetting counter.

