

Sample Timers for DXM1x0-Bx Models



Overview

The associated XML sample programs can be loaded into a DXM150-Bx or DXM100-Bx Wireless Controller.

The **Sample Timer** XML provides an example of a continuously running timer that resets at different time intervals. It does not require remote radios connected to the DXM1x0 to function. The timer is always running. The DXM display LEDs are enabled by universal input 1 on the DXM100 and isolated input 1 for the DXM150. The input is labeled LED Enable. When the LED Enable input is active, LEDs 1, 2, and 3 on the DXM turn on for 5, 10, and 20 seconds respectively as defined by Action Rules. The timer automatically resets at 25 seconds, then LEDs 1, 2, and 3 are again turned on. This ongoing timer can be used for OEE applications, etc.

One-shot Timer XML provides an example of a timer sequence started with the rising edge transition of the Input Trigger. The Input Trigger is universal input 1 on the DXM100 and isolated input 1 for the DXM150.

All timer and input values can be observed via the display of the DXM.

Functions demonstrated include:

- Setting up local registers to:
 - Act as a one second timer
 - Start the timer with a trigger sensor
 - Save a timer value
- Setting up Read and Write Rules
 - Internal registers (Local Register set to a one-second timer function)
 - Universal Inputs (used to initiate the timing function and/or reset the timer value)
- Implementing Action Rules to:
 - Establish the time of the timer functions; the sample configuration uses 5, 10, and 20 seconds
 - Reset the timer value at a specific time (25 seconds in the program), otherwise keep the timer running
- Controlling the DXM's LEDs using Action Rules and Write Rules