

Application Note 7

TRANSITIONAL VS. CONTINUOUS IF CONDITIONS

WinEVM software provides many IF conditions for customizing events to perform the required logical control. It is important to understand the functions and uses of the different IF conditions in order to get the most out of the system's capabilities.

Many of the IF conditions are considered to be "**Transitional.**" That is, they are only true for the brief moment that the specified conditions are met (transition point) or for a short period of time following. All other times they are false. Care should be taken when creating If-Then-Else events that utilize transitional IF conditions. X10 Sequences cannot be used with If-Then-Else events unless accompanied by another type of condition (i.e., If XSEQ: A1 is Received **and** Time is after 9PM...). All other IF conditions are not restricted from if-then-else programming to accommodate compound logic.

Other IF conditions are considered "**Continuous.**" Continuous IF conditions remain true until their condition or state changes to false.

"Transitional" IF conditions include:

X-10 Sequences (All)

Timer (Expiring)

Variable (changes value, increases/decreases in value)

Time (Equal to) - *true for the entire minute specified*

Time Label (Equal to) - *true for the entire minute specified*

Sunrise/Sunset (Equal to) - *true for the entire minute specified*

ASCII In (All)

System Variables (All)

Digital Input (Goes On, Goes Off, Toggles)

Analog Input (changes value, increases/decreases in value)

IR (Sequence Power Sensor goes on, Power Sensor goes off, Power Sensor goes toggles)

HVAC (temperature or setpoint changes value, increases/decreases in value)

Telephone (Sequence, Ring - *true for 6 seconds*, TouchTone Convert Done)

VoiceMail (# New or Old Messages: changes value, increases/decreases in value)

LCD DigitPad Sequence (All)

Security (Any condition with 'Transition Activated' selected)

"Continuous" IF conditions include:

X-10 Device State (All)

Timer (Is Running, Has Stopped, Not Running)

Flag (All)

Variable (equal, greater than, less than, greater than/equal to, less than/equal to, not equal to)

Time (Before, After)

Time Label (Before, After)

Date (All)

Sunrise/Sunset (Before, After)

Digital Input (Is On, Is Off)

Analog Input (equal, greater than, less than, greater than/equal to, less than/equal to, not equal to)

IR (Power Sensor Is On, Power Sensor Is Off)

HVAC (All conditions except: temperature or setpoint changes value, increases/decreases in value)

Telephone Status (CO Line: Off Hook, On Hook, Off Hold, On Hold, ICM: Off Hook, On Hook, Remote/Local user, Caller ID)

VoiceMail (# New or Old Messages: equal, greater than, less than, greater than/equal to, less than/equal to, not equal to)

Security (Any condition with 'Transition Activated' not selected)