What's new in PM Surface Control Manager for the ROC800?

Version 4.07.00

Revised accumulator day/month rollover routines

An extra clock read is performed in reverse order before processing rollover, to eliminate inadvertent rollovers.

The "Reset Command" field and the "Remote Reset Command TLP" field are entirely independent from each other

Either one can reset an effect.

How the Reset function works

Trips Require Reset

- The program automatically selects this option for a PSD-type trip connected to this effect.
- The program automatically unselects this option for a TSD-type trip connected to this effect.
- A user can override (check or uncheck) the automatic selection after the trip has occurred.
- When the box is checked, even though action block that caused the trip is in the cleared (normal) state, the effect stays tripped until a reset action is performed.
- When the box unchecks, the effect clears as soon any tripped action blocks (that are connected to the effect) clear.

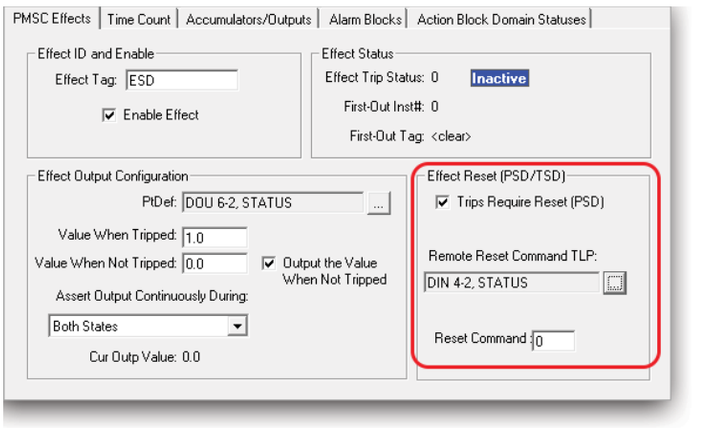
Remote Reset Command TLP

- Click to select a TLP in the ROC800 or FloBoss™ 107 used to reset this effect. For example, you might select a discrete input or a soft point value. When the effect is ready to be reset, any positive value written to the TLP performs the reset.
- The same remote TLP may be used to reset several different effects.
- The program automatically resets the value of the remote TLP back to zero after processing.

Reset Command

- Map this local reset field to HMIs, etc. Any positive value entered causes a reset, and the program resets the value in this field to zero after processing. This field is entirely independent from the "Remote Reset Command TLP" field.

The "Reset Command" and the "Remote Reset Command TLP" fields logically act as an "OR" in resetting the effect.



Running total accumulators (utilities display/accumulate a running total) are now monitored for an inter-scan difference exceeding a preset limit

When the difference exceeds the preset (TLP:UTL,x,100) the inter-scan value is ignored and nothing is added to the accumulation.

This configurable field filters out any spikes in the accumulator based on scan-to-scan values.

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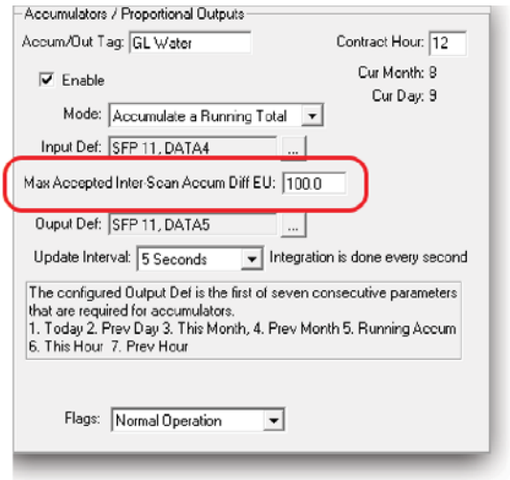


Inclusion of Calc Blocks as part of PMSC in the ROC800

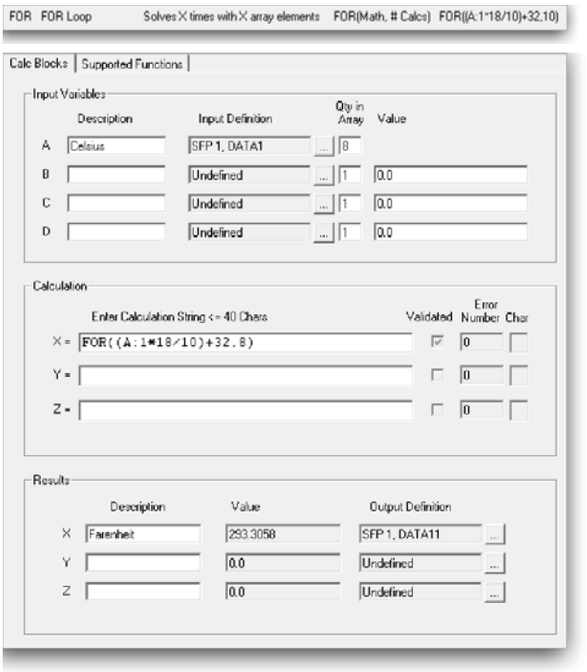
Rearranged function descriptions on Calc Blocks display

The second tab of the Calc Blocks screen includes greater detail for the function descriptions and examples.

FOR() function added to facilitate repeated calculations

The FOR function allows the same calculation to be performed on individual values that are assigned as an array in an input. The results are saved to individual registers and indexed from the defined starting point of the output definition.

The example below shows eight values loaded into Input A, starting at Data 1 in Softpoint 1, The FOR loop executes eight times, and the program stores the results in the data points of Softpoint 1, starting at Data 11.



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