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.



PMSC Effects | Time Count | Accumulators/Outputs | Alarm Blocks | Action Block Domain Statuses |

Effect ID and Enable	Effect Status	
Effect Tag: ESD	Effect Trip State	us: 0 Inactive
Enable Effect	First-Out Ins	#: 0
	First-Out Ta	ag: <clear></clear>
Effect Output Configuration		Effect Reset (PSD/TSD)
PtDef: DOU 6-2, STATUS		🔽 Trips Require Reset (PSD)
Value When Tripped: 1.0		
Value When Not Tripped: 0.0	tput the Value	Remote Reset Command TLP:
Assert Output Continuously During:	nen Not Tripped	DIN 4-2, STATUS
Both States 💌		Reset Command :
Cur Outp Value: 0.0		
L		

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 interscan 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.



-Accumulators / Proportional Outputs	
Accum/Out Tag: GL Water	Contract Hour: 12
▼ Enable	Cur Month: 8 Cur Day: 9
Mode: Accumulate a Running To	al 🔽
Input Def: SFP 11, DATA4	
Max Accepted Inter-Scan Accum Diff EU	100.0
Ouput Def: SFP 11, DATA5	
Update Interval: 5 Seconds 🗾 🗸	ntegration is done every second
The configured Output Def is the first of a that are required for accumulators. 1. Today 2. Prev Day 3. This Month, 4. F 6. This Hour 7. Prev Hour	even consecutive parameters Prev Month 5. Running Accum
Flags: Normal Operation	3

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.

lc Blocks 9	Supported Function	16				
- Input Varia	bles					
D	escription	Input Definition	Qtyin Anray	Value		
A De	lsius	SFP 1, DATA1	8			
B		Undefined	1	0.0	_	
C 🗌		Undefined	1	0.0	_	
D		Undefined	1	0.0		
Calculation X = [i Y = [Enter Calculation	String <= 40 Chars <10) + 32, 8)		Va	idatəd ⊡	Error Number Char
⊂Calculation × = [i Y = [Z = [Enter Calculation	String <= 40 Chers /10)+32,8)		Va	idated ⊡	Error Number Char
Calculation × = [i Y = [Z = [Results—) Enter Calculation FOR ((A : 1+18,	String <= 40 Chers <10)+32.8)		Va	idated	Error Number Cher 0 0
−Calculator × = [i Y = [Z = [−Results	Enter Calculation FOR ((A : 1*18,	String <= 40 Chers <10)+32.8) Value page game		Va	idated	Error Number Char 0
- Calculator X = [i Y = [Z = [- Results	Enter Calculation FOR ((A : 1+18) Description Farenheit	String <= 40 Chers 10)+32.8) Value 233.3050</td <td></td> <td>Va Output Der SFP 1, DAT</td> <td>idated</td> <td>Error Number Char 0 0</td>		Va Output Der SFP 1, DAT	idated	Error Number Char 0 0
- Calculator X = [i Y = [Z = [-Results	Enter Calculation FOR ((A : 1+18) Description Farenheit	String <= 40 Chers ×10)+32.8) Value 233.3058 0.0	2]]]	Va Output De FP 1, DAT. Indefined	lidated	Error Number Char 0 0 0



Global Headquarters North America and Latin America Emerson Process Managemen Remote Automation Solutions 6005 Rogerdale Road Houston, TX, USA 77072 T+12818792699 F +1 281 988 4445





Europe

Emerson Process Management Remote Automation Solutions Unit 8. Waterfront Business Park Dudley Road, Brierley Hill Dudley, UK DY5 11 X T +44 1384 487200 F +44 1384 487258



Middle East and Africa Emerson Process Management Remote Automation Solutions Emerson FZE PO Box 17033 Jebel Ali Free Zone - South 2 Dubai, UAE +971 4 8118100 F +1 281 988 4445



Asia Pacific Emerson Process Management Remote Automation Solutions 3A International Business Park #11-10/18 Icon@IBP Tower B Singapore 609935 T+65 6777 8211 F +65 6777 0947

©	2016 Remote Automation Solutions, a business unit	t
of	Emerson Process Management. All rights reserved.	

This publication is for informational purposes only. While every effort has been made to ensure accuracy, this publication shall not be read to include any warranty or guarantee, express or implied, including as regards the products or services described or their use or applicability. Remote Automation Solutions (RAS) reserves the right to modify or improve the designs or specifications of its products at any time without notice. All sales are governed by RAS terms and conditions which are available upon request. RAS accepts no responsibility for proper selection, use or maintenance of any product, which remains solely with the purchaser and/or end-user.

Find us in social media



Remote Automation Solutions

