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NOT

AND

OR

Insert Internal
Parameter...Insert External
Parameter...Insert Named
State...

SELSTR...

LOGEVENT...

Insert Alias...

Expression:

```

1 (* COMPUTE DIFFERENCE BETWEEN ACUTATOR SHAFT AND VALVE TRIM POSITION *)
2 '^/NEW_DELTA' := '^/SIGNAL_IN' - '^/SIGNAL_OUT';
3 (* IF DIFFERENCE BETWEEN SHAFT AND TRIM POSITIONS IS LESS THAN RESOLUTION, USE OLD
4 IF (ABS('^/NEW_DELTA') - ABS('^/OFFSET') > '^/RESOLUTION') THEN
5 (* IF SIGNAL IS IN THE OPPOSITE DIRECTION AS LAST STROKE, THEN CHECK FOR DEADBAND
6     IF (SIGN('^/NEW_DELTA' + '^/OFFSET') XOR SIGN('^/OLD_DELTA') > 0 ) THEN
7         IF (ABS('^/NEW_DELTA') > 0.5*'^/DEADBAND' + '^/RESOLUTION') THEN
8             IF (SIGN('^/NEW_DELTA') > 0) THEN
9                 '^/OFFSET' := -0.5*'^/DEADBAND';
10            ELSE
11                '^/OFFSET' := -0.5*'^/DEADBAND';
12            ENDIF ;
13            '^/OLD_DELTA' := '^/NEW_DELTA';
14            '^/SIGNAL_OUT' := '^/SIGNAL_OUT' + '^/NEW_DELTA' + '^/OFFSET';
15        ENDIF ;
16    ELSE
17        '^/OLD_DELTA' := '^/NEW_DELTA';
18        '^/SIGNAL_OUT' := '^/SIGNAL_OUT' + '^/NEW_DELTA' + '^/OFFSET';
19    ENDIF ;
20 ENDIF ;
21 '^/SIGNAL_OUT.ST' := '^/SIGNAL_IN.ST';
22 IF ('^/COMP_START' = 0) THEN '^/SIGNAL_OUT' := '^/SIGNAL_IN' ENDIF;

```

OK

Cancel

Parse

Load...

Save...

Print

Help

Parser output