**COMPASS for Pressure with 2271A, 6270A, 8270A or 8370A Pressure Controller**

Reset Safety Limits at End of Test, and/or

Set Hold Limit to Pressure Unit Mode (not %Range)

Applies to 2271A, 6270A, 8270A and 8370A pressure controllers

If you want to reset the Safety Limits and Ready Tolerance settings at the end of a COMPASS for Pressure test , then run a “Post Test Macro” named “SafetyLimitsRST” at the end of the test. Add a post test macro in the **Data** tab in the “Test Editor” window of an Advanced Test. Create this macro if necessary in the COMPASS Macro Editor and name it “SafetyLimitsRST”.

Here’s a version that simply uses the \*RST command

**Function** SafetyLimitsRST(Target, ChnlSt, SetMode, ParamID, cDevice)

rtv = cCOMPASS.cConfig.ActiveRefP.IoSendComman(**Cstr**(\*RST),**True**)

**End Function**

Here’s an alternate version

**Function** SafetyLimitsRST(Target, ChnlSt, SetMode, ParamID, cDevice)

Cmd1 = "UNIT:PRES PSI"

Cmd2 = "CALCulate:LIMit:LOWer -300"

Cmd3 = "CALCulate:LIMit:UPPer 3100"

Cmd4 = "SOURce:PRESsure:TOLerance:RANGe On"

Cmd5 = "SOURce:PRESsure:TOLerance 0.005"

**For** i = 1 **To** 5

 num = "Cmd" & i

 cmd = num

 rtv = cCOMPASS.cConfig.ActiveRefP.IoSendComman(**Cstr**(cmd),**True**)

**Next**

**End Function**

Another alternate version is on page 2

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

*'Test Macros do not have a return value.*

*'Manipulate the test or device collection as desired.*

*'iT The current temperature point in the test*

*'iL The current line pressure point in the test.*

*'iC The current pressure cycle in the test.*

*'IP The current pressure point in the test.*

*'cTest The test class .*

*'cConfig Configuration class that holds all active devices.*

*'*

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Function** **PostTest6270A**(iT, iL, iC, iP, cTest, cConfig)

*'Reset 6270A to default settings*

*'Will also work without changes for 2271A*

*'Works with 8270A and 8370A but values need to be changed*

cmd = "UNIT:PRES PSI"

cCOMPASS.**StatusDisplay** "Resetting 6270A default settings"

reply = cCOMPASS.cConfig.SetPrs(1).ioSendCommand(**CStr**(cmd),**True**,0)

 cDebug.LogStatus "Sent command: " & cmd

cmd = "CALC:LIMIT:UPP 3300"

cCOMPASS.**StatusDisplay** "Resetting 6270A default settings"

reply = cCOMPASS.cConfig.SetPrs(1).ioSendCommand (**CStr**(cmd),**True**,0)

 cDebug.LogStatus "Sent command: " & cmd

cmd = "CALC:LIMIT:LOW -300"

cCOMPASS.**StatusDisplay** "Resetting 6270A default settings"

reply = cCOMPASS.cConfig.SetPrs(1).ioSendCommand (**CStr**(cmd),**True**,0)

 cDebug.LogStatus "Sent command: " & cmd

*'change 6270A to most common unit that is used and % of range for hold/tolerance limit*

cmd = "UNIT:PRES PSI"

cCOMPASS.**StatusDisplay** "Resetting 6270A default settings"

reply = cCOMPASS.cConfig.SetPrs(1).ioSendCommand (**CStr**(cmd),**True**,0)

 cDebug.LogStatus "Sent command: " & cmd

cmd = "TOL:RANGE ON"

cCOMPASS.**StatusDisplay** "Resetting 6270A default settings"

reply = cCOMPASS.cConfig.SetPrs(1).ioSendCommand (**CStr**(cmd),**True**,0)

 cDebug.LogStatus "Sent command: " & cmd

cmd = "TOL 0.005"

cCOMPASS.**StatusDisplay** "Resetting 6270A default settings"

reply = cCOMPASS.cConfig.SetPrs(1).ioSendCommand (**CStr**(cmd),**True**,0)

 cDebug.LogStatus "Sent command: " & cmd

**TimeDelay** 1

cCOMPASS.**StatusDisplay** "Resetting 6270A default settings"

msgbox "Remember to close COMPASS before connecting to another pressure module."

cCOMPASS.**StatusDisplay** "Press OK to close message box"

**TimeDelay** 1

**End Function**

If you want to set the Ready Tolerance settings to Pressure Unit mode (not % Range mode) at the beginning of a COMPASS for Pressure test , then run a “Pre Test Macro” named “PreTest6270A” at the beginning of the test. Create this macro if necessary in the COMPASS Macro Editor and name it “PreTest6270A.

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*'Test Macros do not have a return value.*

*'Manipulate the test or device collection as desired.*

*'iT The current temperature point in the test*

*'iL The current line pressure point in the test.*

*'iC The current pressure cycle in the test.*

*'IP The current pressure point in the test.*

*'cTest The test class .*

*'cConfig Configuration class that holds all active devices.*

*'*

*'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\**

**Function** **PreTest6270A**(iT, iL, iC, iP, cTest, cConfig)

*'Will also work without changes for 2271A, 8270A, 8370A*

*'change 6270A to pressure unit for hold/tolerance limit*

cmd = "TOL:RANGE OFF"

cCOMPASS.**StatusDisplay** "Set 6270A hold limit to pressure units, not % of range"

reply = cCOMPASS.cConfig.SetPrs(1).ioSendCommand (**CStr**(cmd),**True**,0)

 cDebug.LogStatus "Sent command: " & cmd

**TimeDelay** 1

**End Function**