

**ControlIQ Application Note**

**Number:** 20

**Date:** December 10, 2015

**Subject:**  Building an MVO that overrides ASIC/2 Outputs

**Subsystem: ASIC/2**

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It is desirable to have an MVO point from the “Q” override the output value of an ASI object. The following works regardless of the point being analog or digital.

UTL-XX-X MVO Writes here

Auto = -1

Off = 0

Hand >= 1

Logic-00 AI/BO A lt B Signed “Mode-Auto”

Input A UTL-XX-X WD\_VAL

Input B Special = 0

Logic-01 AI/BO A eq B Signed “Mode-Off”

Input A UTL-XX-X WD\_VAL

Input B Special = 0

Logic-02 AI/BO A ge B Signed “Mode-Hand”

Input A UTL-XX-X WD\_VAL

Input B Special = 1

Logic-03 AI/AO Select A “Value-Auto”

Input A **AUTO VALUE INPUT WD\_VAL (ex. PID)**

Input B UTL-XX-X WD\_VAL

Input C Logic 0 WD\_NOTZ

Logic-04 AI/AO Select A “Value-Hand”

Input A UTL-XX-X WD\_VAL

Input B Special = 0

Input C Logic 2 WD\_NOTZ

Calc-00 Min/Max “Value-Result”

Input A Logic-3 2\_Byte

Input B Logic-4 2\_Byte

\*\*Calc-00-04 (Highest Value) now holds the value that should be used to drive the output.