

SECTION X

FACTORY CALIBRATION of AIX1 and AOX1

Revision Date: 7-22-24

ANALOG LEVEL INPUT AIX1 - FACTORY CALIBRATION PROCEDURE

Zero Calibration

1. First apply 4.0 mA to Analog Input AIX1.
2. Then while viewing Parameter **AI o** (in the menu) press the Up or Down push-buttons, until Parameter **AI o** reads 819.
3. Check Span Calibration.

Span Calibration

1. First apply 20 mA to Analog Input AIX1.
2. Then while viewing Parameter **AI n** (in the menu) press the Up or Down push-buttons, until Parameter **AI n** reads 4095.
3. Check Zero Calibration.

User / Operator Info.	SCADA	Description of Register Contents		
Parameter	Register Address			
Analog Input Calibration - AIX1				
AI o	40901	Analog Input - AIX1	Zero Calibration	Analog Input (AIX1) Status Parameter A.100 Is Displayed While Viewing or Changing Parameter AI o or AI n.
AI n	40902		Span Calibration	

Note:

The above Calibration Parameters for AIX1 are used to perform the factory calibration and should not need to be calibrated again.

For the procedure to setup the Controller for a particular Pressure Transducer's range see:

Analog Level Input - Calibration Procedure in Section 1.

ANALOG OUTPUT AOX1 - FACTORY CALIBRATION PROCEDURE

Zero Calibration

1. First connect an Ammeter to Analog Output AOX1. (The analog output circuit should have a resistor in series with the Ammeter with a value of between 100 Ohms and 250 Ohms.)
Note: While viewing Parameter **AO o** (in the menu) the Analog Output Control Value will be forced to a value of 819 and the Controller's display will always show 819.
2. Then while viewing Parameter **AO o** (in the menu) press the Up or Down push-buttons, until the measured Analog Output reads 4.0 mA. (Where the measured Analog Output is what is read on the Ammeter.)
3. Check Span Calibration.

Span Calibration

1. First connect an Ammeter to Analog Output AOX1. (The analog output circuit should have a resistor in series with the Ammeter with a value of between 100 Ohms and 250 Ohms.)
Note: While viewing Parameter **AO n** (in the menu) the Analog Output Control Value will be forced to a value of 4095 and the Controller's display will always show 4095.
2. Then while viewing Parameter **AO n** (in the menu) press the Up or Down push-buttons, until the measured Analog Output reads 20.0 mA. (Where the measured Analog Output is what is read on the Ammeter.)
3. Check Zero Calibration.

User / Operator Info.	SCADA	Description of Register Contents		
Parameter	Register Address			
Analog Output Calibration - AOX1				
AO o	40911	Analog Output - AOX1	Zero Calibration	Output Forced to 819 while viewing AO o
AO n	40912		Span Calibration	Output Forced to 4095 while viewing AO n

Note:

The above Calibration Parameters for AOX1 are used to perform the factory calibration and should not need to be calibrated again.