

SECTION D

ANALOG OUTPUT AOX1

Revision Date: 3-26-24

DESCRIPTION OF OPERATION

Introduction

Analog Output AOX1 provides an analog representation of the Level Input data to a Telemetry device.

Analog Output AOX1 is Isolated, Transient Protected and use a 12-bit Digital to Analog Converter to produce the reference signal for the 4-20 mA Analog Output.

For Terminal Block numbers see below.

Status

The status of the Analog Output AOX1 is made available to be read by SCADA and is available in the menu from Parameter A.200. The data is scaled to 819 @ 4.0 mA and 4095 @ 20 mA.

Function

With the Level Input Select (Parameter P.22) set for the Analog Level Meter ALM1 (Parameter P.22 = 1) the Analog Output AOX1 will be a copy of the Analog Level Input AIX1.

With the Level Input Select (Parameter P.22) set for the Level Probe Meter LPM1 (Parameter P.22 = 2) the Analog Output AOX1 will be proportional to how many Level Probe Electrodes are covered by liquid.

With the Level Input Select (Parameter P.22) set for Float Switch Inputs (Parameter P.22 = 3) the Analog Output AOX1 will not operate.

With the Level Input Select (Parameter P.22) set for the Remote Control Level Input (Parameter P.22 = 4) the Analog Output AOX1 will be proportional to the value of the Remote Control Level Input (Parameter rCLn) divided by the value of the Level Input Span (Parameter P.24).

User / Operator Info.	SCADA	Description of Parameters and SCADA Notes	
Parameter	Register Address		
Analog Output Status			
A.200	40066	Analog Output - AOX1	Note: Parameter A.200 is the 12-bit Digital to Analog Converter output control value that is factory calibrated to the following: 819 @ 4.0 mA 4095 @ 20 mA

Connection Diagram

