Technical Bulletin
AJ-300 Series Circular Chart Recorder
For Use in HTST Meter Based Timing
- Setup and Configuration -

ANDERSON-NEGELE

The Anderson AJ-300 Series Circular Chart Recorder and Recording Controller may be utilized in Meter Based Timing Systems (MBTS). As such, these instruments are required to meet the applicable criteria of the Pasteurized Milk Ordinance. The following details illustrate the proper configuration and programming for this application

Model Number:

All units configured for MBTS should be verified as being equipped with a Sealable Chart Plate, in addition to an Event Pen. A "03" will appear at the end of the model number matrix. Model number matrix appears on a sticker located on the case lip, visible with door open.

Typical matrix number (X denotes options): AJ3XXX0XXXX02X<u>03</u>

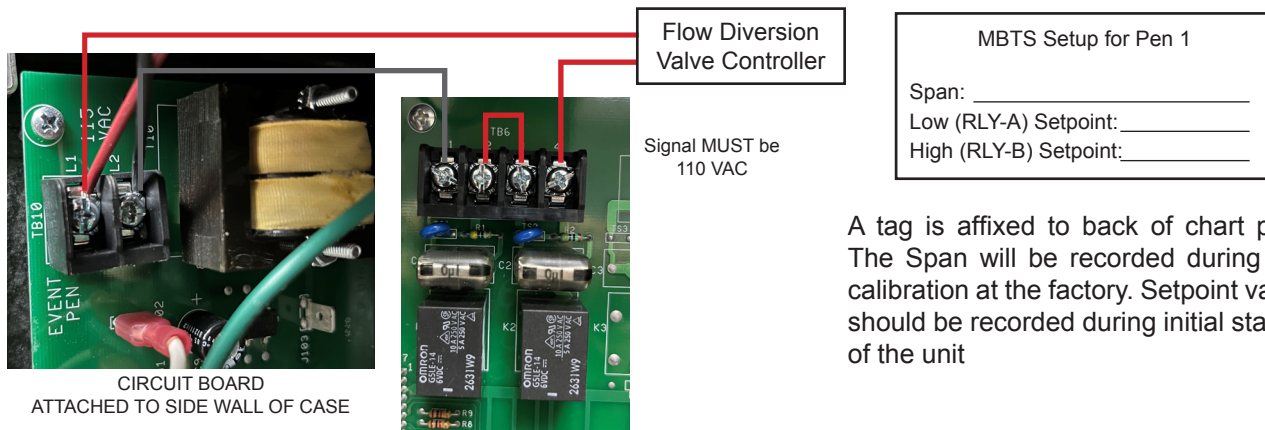In addition, rotation of circular chart shall be 12 hours for one full rotation

Adjustment of High Flow and Loss-Of-Signal alarm setpoints:

These setpoints are pre-configured to provide fail-safe actuation of the Flow Diversion Valve, as well as controlling the Event Pen Action

Flowrate	Relay Action	Event Pen Position
Below Loss-Of-Signal Setpoint	RLY-A Open RLY-B Closed	Inward
Above Loss-Of-Signal Setpoint / Below High Flow	RLY-A Closed RLY-B Closed	Outward
Above High Flow	RLY-A Closed RLY-B Open	Inward

The Recorder will be wired so that the Flow Diversion Valve is energized ONLY when RLY-A AND RLY-B are closed, and all other criteria are met.

Process Alarm Setpoint 1 - Loss-Of-Signal (RLY-A)
Process ALarm Setpoint 2 - High Flow Alarm (RLY-B)

Flow Diversion Valve Controller

Signal MUST be 110 VAC

CIRCUIT BOARD
ATTACHED TO SIDE WALL OF CASE

MBTS Setup for Pen 1

Span: _____
Low (RLY-A) Setpoint:_____
High (RLY-B) Setpoint:_____

A tag is affixed to back of chart plate. The Span will be recorded during final calibration at the factory. Setpoint values should be recorded during initial start-up of the unit

Rev 1.2
Doc. 1021

Anderson-Negele
156 Auriesville Rd., Fultonville, NY 12072
800-833-0081

Page 1 of 2

Checking the Setpoint Values
Break and remove the *Health Authority Wire Seal* on the chart plate. Loosen the chart plate screws, and pivot the chart plate open
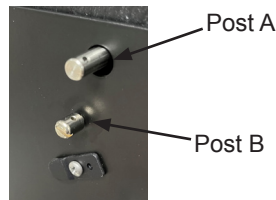

Post A: Protrudes through chart plate when chart plate is in closed position. Drilled to accept Health Authority Wire Seal

Post B: Attached to chart plate. Drilled to accept Health Authority Wire Seal

Recorder - Model Number Begins with: AJ31

Note: If menu option not visible, refer to section 3-1 Enable Mode Configuration Procedure to activate.

Press and release the SCROLL key until ASEt is displayed in the lower **LEFT** display, then press **DOWN** key, Press the **SCROLL** key to advance the display through the parameters and their values. After all selections have been made, press the **UP** key while PAL1 or PAL2 is displayed (may be lower right window if two pen unit) to exit the view mode.

PAL1 = RLY-A = Loss-Of-Signal Setpoint Value
PAL2 = RLY-B = High Flow Setpoint Value

Recorder - Model Number Begins with: AJ32

Note: If menu option not visible, refer to section 3-3 Enable Mode Configuration Procedure to activate.
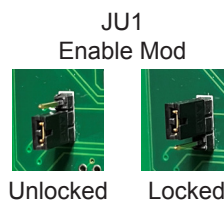
Press and release the **SCROLL** key until tunE is displayed in the lower Left display, then press the **DOWN** key. Press the **SCROLL** key to advance the display through the parameters and their values. AFter all selections have been made, press the **UP** key when **Pb1** (or another parameter code is displayed to exit the view mode.

PAL1 = RLY-A = Loss of Signal Setpoint Value
PAL2 = RLY-B = High Flow Setpoint Value

JU1
Enable Mod

Unlocked   Locked

Changes to programmed values:
If changes to any programmed values are required,
it will be necessary to re-position the program jumper
from the LOCK position, to the PROGRAM position.

Rev 1.2
Doc. 1021

Anderson-Negele
156 Auriesville Rd., Fultonville, NY 12072
800-833-0081

Page 2 of 2