



IM-0480 Rev. E  
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## MT-6220 SERIES REMOTE CONTROL / READOUT

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## I. General Description

The MT-6220 remote control and readout station combines an on-off-on toggle switch and a vertical meter readout in a compact NEMA 12 enclosure. The unit can be used to remotely position and y Jordan Controls, Inc. 120 Vac single phase actuator. The toggle switch is a "spring return to center" type rated at 125 V, 15 A, 3/4 H.P. The meter readout is compatible with a 1 K feedback pot and excitation voltage for the pot is provided by the MT-6220.

## II. Storage

If the actuator will not be installed, it should be stored in a clean, dry area where the ambient temperature is not less than -20° F. The actuator should not be stored in a corrosive environment.

## III. Installation

Installation mounting dimensions are provided on Bulletin J-514 and on prints supplied by Jordan Controls, Inc.

## IV. Start up and Calibration

Install interconnect wiring as shown on the print provided by Jordan Controls, Inc.

*NOTE: When supplied with a Jordan controls, Inc. actuator, the meter readout is preset at the factory to indicate the actuator's rated output turns using the wiring diagram provided with the unit.*

Deflecting the toggle switch to "increase" will provide 120 Vac at MT-6220 terminals 1 and 2.

Deflecting the toggle switch to "decrease" will provide 120 Vac at MT-6220 terminals 1 and 3.

The two ends of the feedback pot are to be connected to MT-6220 terminals 4 and 6 with the wiper of terminal 5. As feedback pot resistance increase between MT-6220 terminals 4 and 5, the meter reading will increase. AC power (120 Vac single phase) is to be supplied to MT-6220 terminals 7 and 8.

**WARNING:** *Potentiometer excitation voltage is not isolated from 120 Vac input power. Potentiometer should be handled with extreme caution.*

To Calibrate the meter reading, proceed as follows:

1. Deflect the toggle switch to the left ("DECREASE") until the actuator has been driven to the desired actuator zero position. (This may or may not be a zero meter indication.)
2. Adjust the feedback pot position in order to obtain a meter "ZERO". On Jordan Controls, Inc. actuators, this is done in one of two ways.
  - A. In units where the feedback pot is mounted separately from the limit switches or where the limit switches are not provided, the feedback pot will be mounted to a disc. To rotate the pot, loosen the three (3) pan head screws retaining the disc and turn the pot and disc assembly.
  - B. On units where the feedback pot shaft is used for turning limit switch mechanisms, the pot must be loosened by the bushing nut which holds the pot to the mounting pedestal. Rotate the pot only. Rotating the limit switch sand pot assembly would relocate the actuator zero but would not adjust the meter with respect to actuator zero.

When the feedback pot is loose, rotate it slowly to obtain a meter reading of "0". If the zero is bypassed, the meter may jump to its maximum reading. When meter zero is obtained, tighten the pot mounting.

3. Deflect the toggle switch tot he right ("INCREASE") until the actuator reaches the "maximum" end of travel.
4. Remove the plug from the front panel of the MT-6220. (It is located just above and to the left of the meter.) This will expose a trim pot. Adjust this trim pot to obtain a full scale meter deflection.

Turning the trim pot clockwise (CW) will increase meter reading. Replace the plug in the front panel.