

C-5230 Pneumatic Signal Limiter

There are basically two applications for the C-5230, first as a high and low signal limit adjustment used to prevent further readjustment of the temperature on a two element (Master--Submaster) controller and second, as a minimum position adjustment for N.C. outdoor air dampers.

Never install C-5230 in Input 2 connection of T-9000 controllers. Loss of control will occur when limit is reached.

If remote set point is furnished, limits may also be required, which can be accomplished on the R-4000 dial or by installing another C-5230 in the remote set point line.

High and low limit adjustments will shift with variations in supply air pressure. Adjustments should be made with the C-5230 piped on the job, as lengths of lines and variations in air flow will change settings.

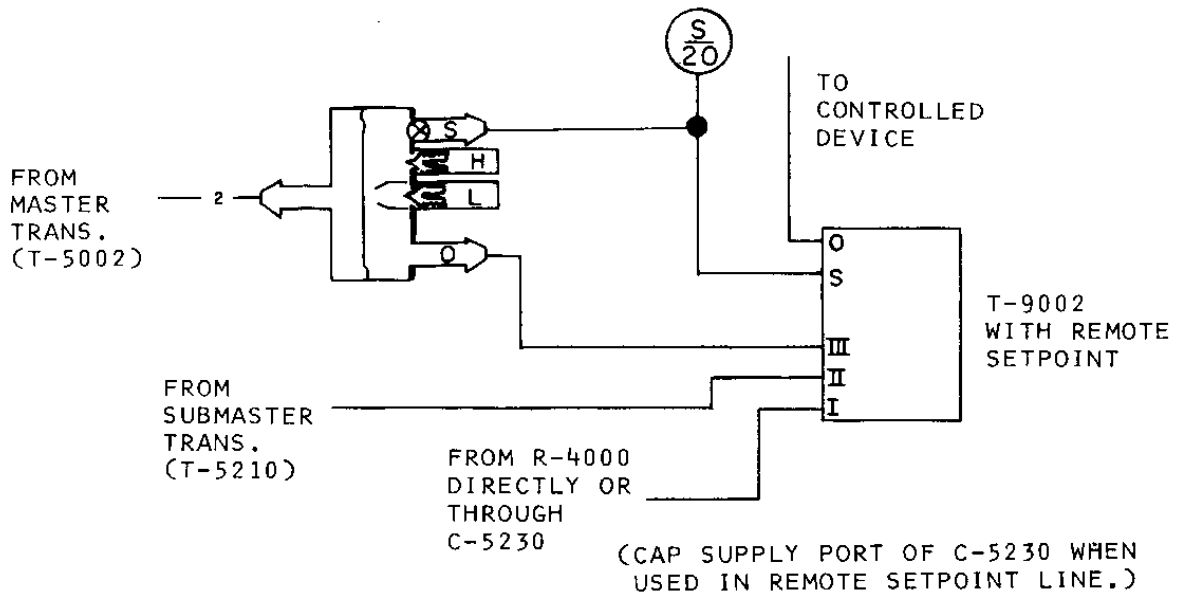


Fig. 1: C-5230 Used as High-Low Signal Limiter

Note: The C-5230 is a non-relay instrument, without feedback, and its settings will vary 1:1 as the supply air varies 1:1.

O.A. Minimum Position Adjustment

Adjusting screw "L" is used to provide the minimum output pressure for N.C. dampers. Input 2 must have a pressure lower than the desired minimum value when adjustment is made. Since screw "L" drastically reduces the exhaust air to atmosphere, the output line must be connected only to a small capacity (volume) chamber; such as, the pilot connection of a positioner. 5/32 in. O.D. tubing should also be used to keep capacity down to a minimum when running output line from panel to positioner.

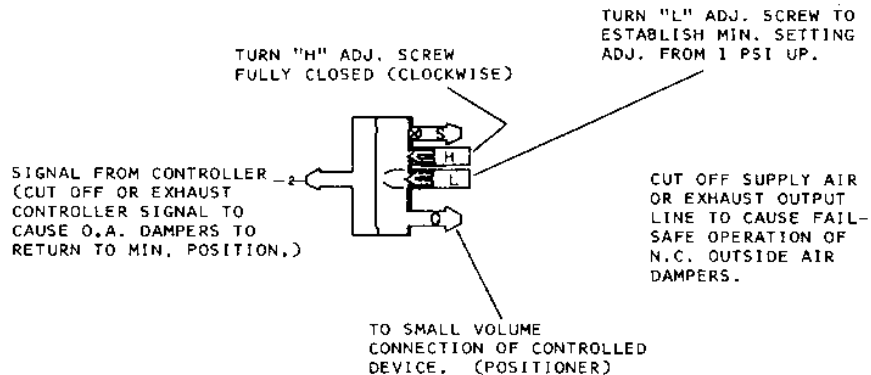


Fig. 2: C-5230 Used as Minimum Setting of N.C. O.A. Dampers

ALSO REFER TO REFERENCE DATA #1 R-4000, PAGE 2

**JOHNSON
CONTROLS**

Controls Group
507 E. Michigan Street
P.O. Box 423
Milwaukee, WI 53202

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