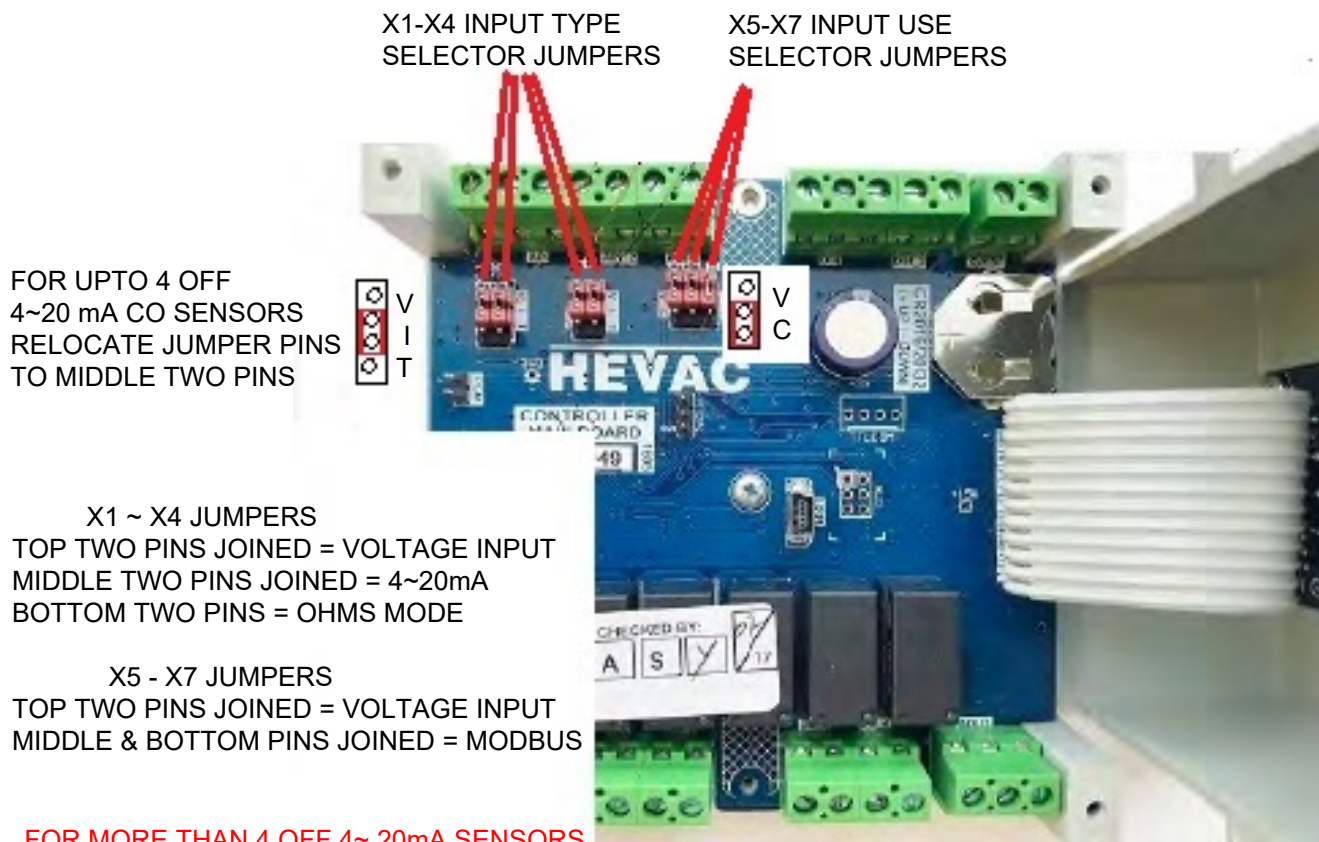


HCP7 SENSOR INPUT TYPE SELECTION

PROCEDURE TO SET SENSOR INPUT X1 to X4 TO 4 ~ 20mA INPUT MODE

To use the HCP7 with 4 ~ 20mA type CO or NO2 sensors it is necessary to relocate physical input type selector jumpers from the standard 2-10 volt input mode (V) to the 4 ~ 20mA (I) mode. Disconnect the controller power and undo the two screws (top & bottom) securing the top housing (with its pcb) to the bottom housing (with its pcb), so that the top housing can be raised & hinged across to the right, giving access to the bottom pcb. Under the top left terminal strip (for the sensor inputs x1 - x7) seven header sets of pins are located with 3 or 4 pins with finger jumpers joining 2 of the 3 or 4 pins. Usually the jumpers are set joining the top two pins in the voltage mode for working with 2 to 10 volt dc sensor inputs. To allow the use of upto four 4 ~ 20mA sensors instead, it is necessary to relocate these jumpers to the current mode, see detail below.

CONTROLLER BOTTOM PCB SHOWING SENSOR MODE SELECTION PINS



FOR MORE THAN 4 OFF 4~ 20mA SENSORS
EITHER USE LT74.20 CONVERTOR MODULE
TO CONNECT UPTO 7 OFF 4~20mA SENSORS DIRECTLY TO THE HCP7 (OPERATING IN STANDARD
VOLTAGE INPUT MODE) **OR** SET JUMPERS FOR X5-X7 TO COMMS MODE (WHICH DISABLES THESE
INPUTS AS SENSOR INPUTS) AND CONNECT UPTO 4 ADDITIONAL 4~20mA SENSORS TO AN EXP7
EXPANSION MODE (X1 ~ X4) WITH ITS INPUT PINS ALSO SET TO CURRENT INPUT MODE.