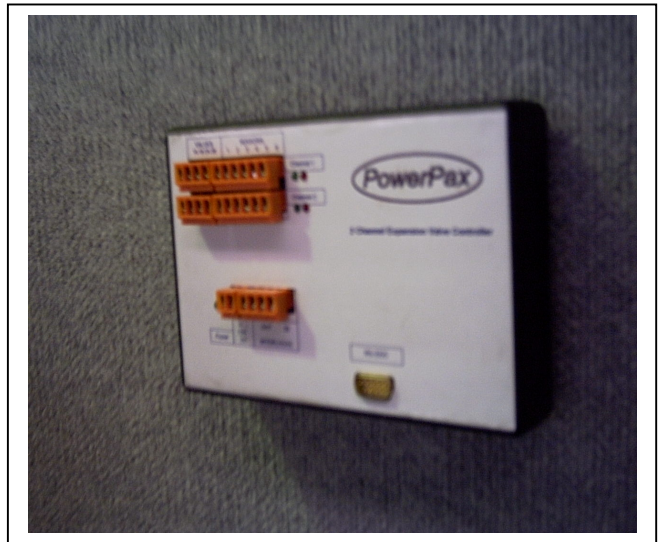
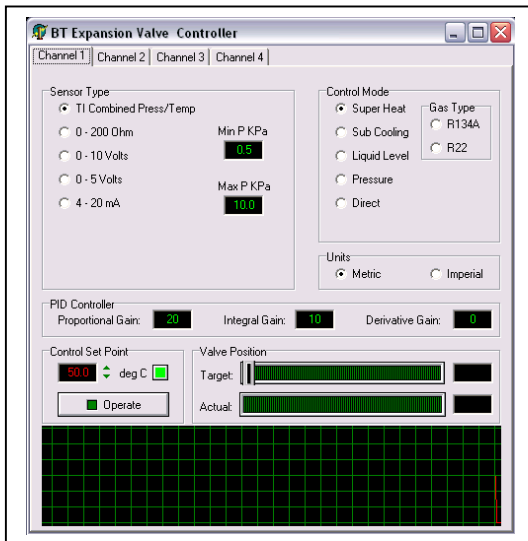


EXV CONTROLLER



DESCRIPTION

The **PowerPax** EXV controller provides control of up to four **PowerPax** EXV's in response to voltage, current loop, or resistance sensor signals. Control of the valve(s) can be direct (position proportional to input signal) or By PID control algorithm to achieve a set point value. Valves can be controlled by dedicated inputs or in pairs (2 valves behave as one to double capacity). This versatility allows the valves to be used for various applications such as Refrigerant Expansion or HOT gas modulation
In response to
Level
Superheat (algorithms for R134a and R22 provided)
Pressure
Or
in response to output from a third party controller.

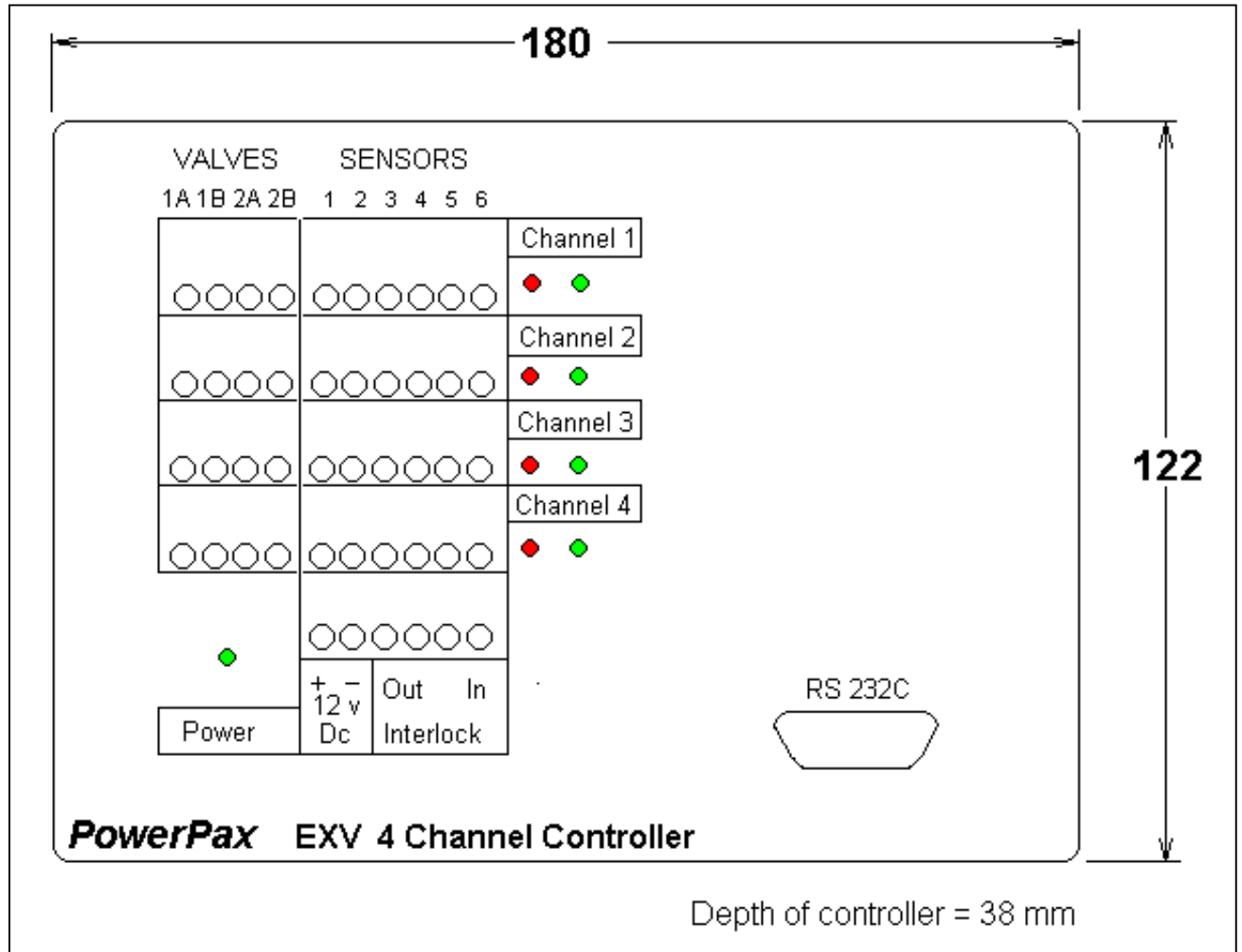
PART NUMBERS FOR ORDERING

2-Channel controller	PPXC-02-01
4-Channel controller	PPXC-04-01

SEE ALSO

PowerPax Float chamber assembly for flooded coolers. (PPFC-100-90)

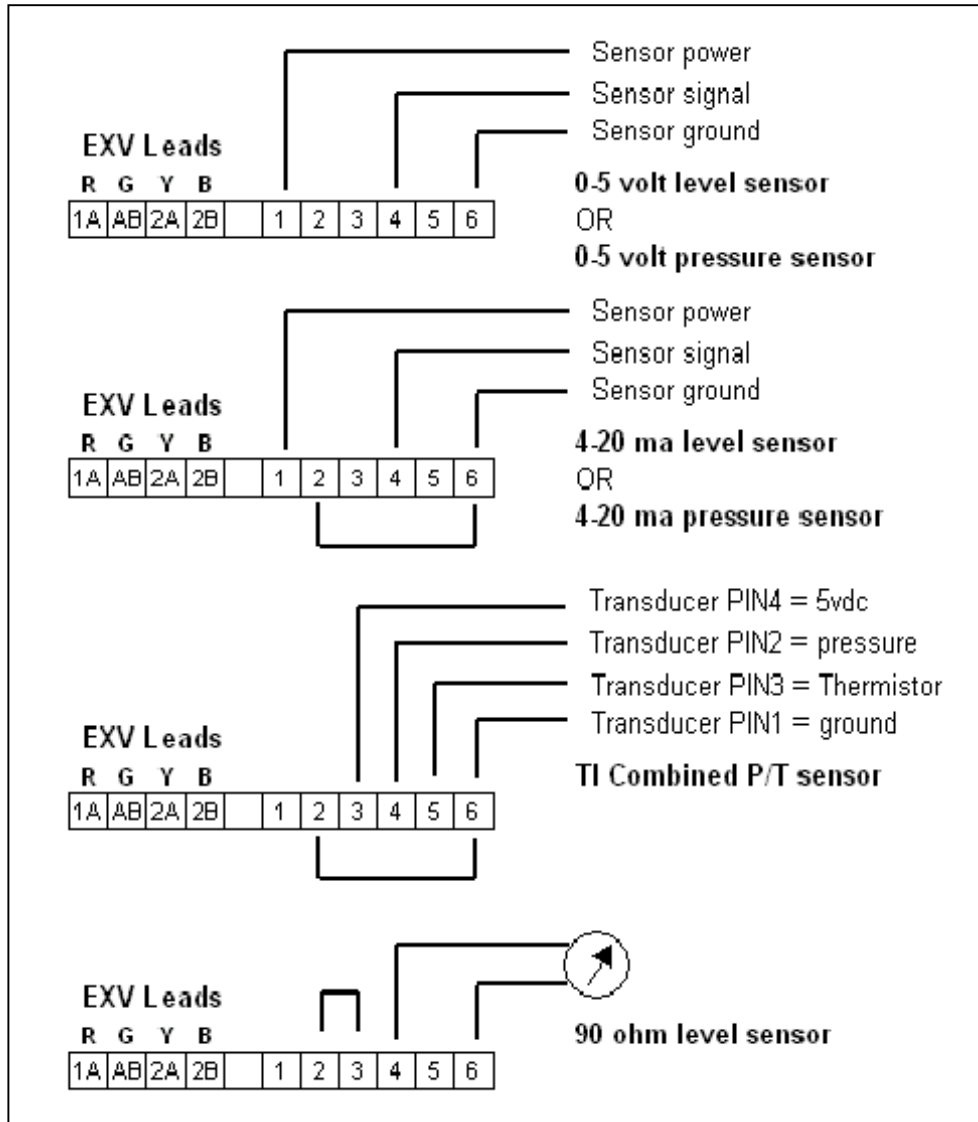
DIMENSIONS and LAYOUT



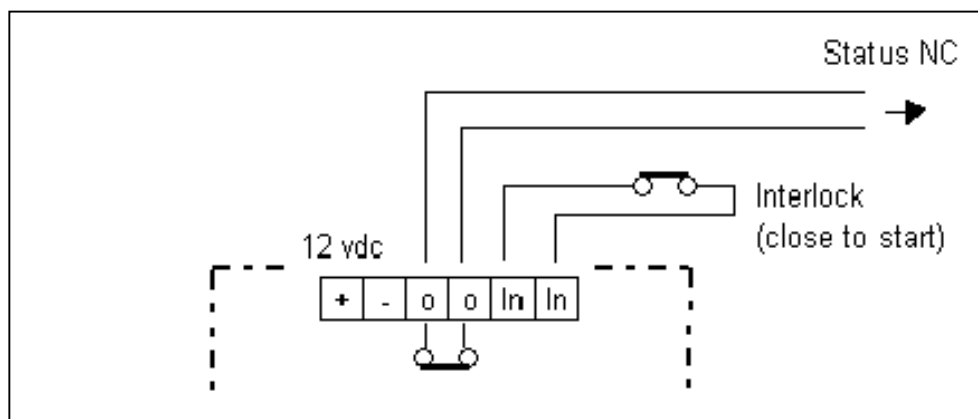
SPECIFICATIONS

Power Input:	12 v dc 100 va (min.)
Output:	Two bipolar pulse outputs per valve 12 VDC nominal 4 Watt (max.)
Control options:	Superheat (Choice of R134a or R22) Sub cooling Pressure only Level Analog position in response to voltage or ma current loop.
Control Inputs:	Temperature and pressure (TI combined sensor). Pressure only 0 to 5vdc 4 to 20 ma current loop
Set point method:	Set point and control parameters are set using PC software via RS232a (serial port) interface.
Mounting:	DIN rail mounting

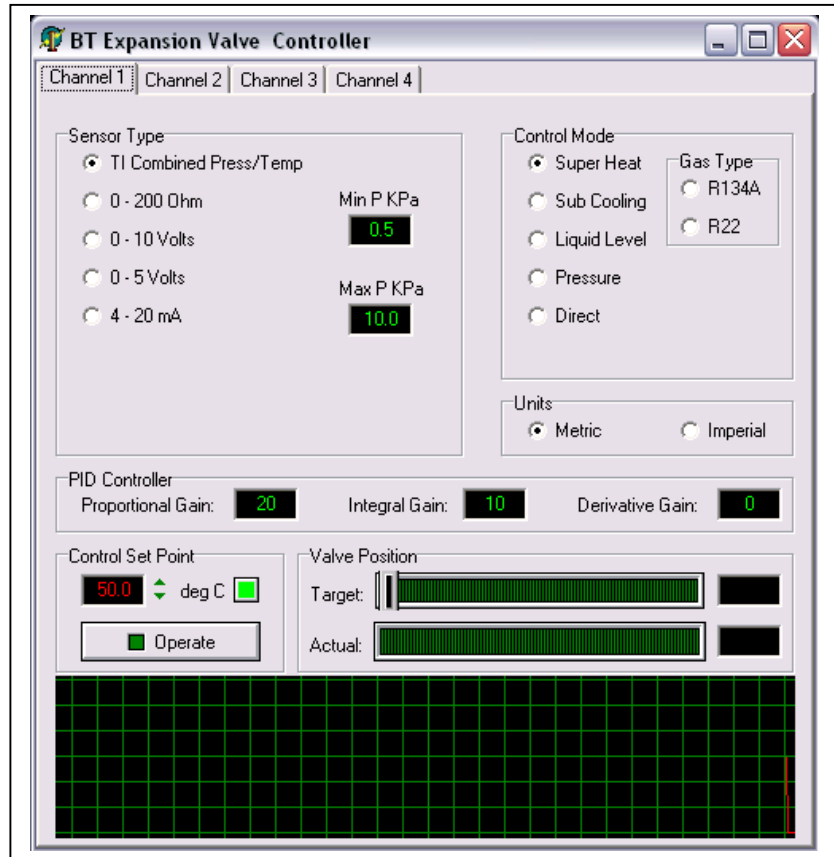
WIRING
SENSORS



POWER
And
INTERLOCKS



CONTROLLER SCREEN



PROGRAM SETUP

- Select the channel to set up
- the sensor type
- the control mode
- Gas type (if superheat or subcooling)
- Set the control set point value
- Set the PID terms (suggested start values are: P=500,I=500,D=0)
- Select OPERATE

Repeat for other channels which are used.

Note: If channel #2 is slaved off channel #1 (or Ch#4 off ch#3) you must still set up the PID terms and select OPERATE. In this case the Control mode is "slave".