

# MistraSwitch Hardware Setup

For the Thermo Fisher Scientific Field Service Engineer

## Installation Procedure

### CAUTION!

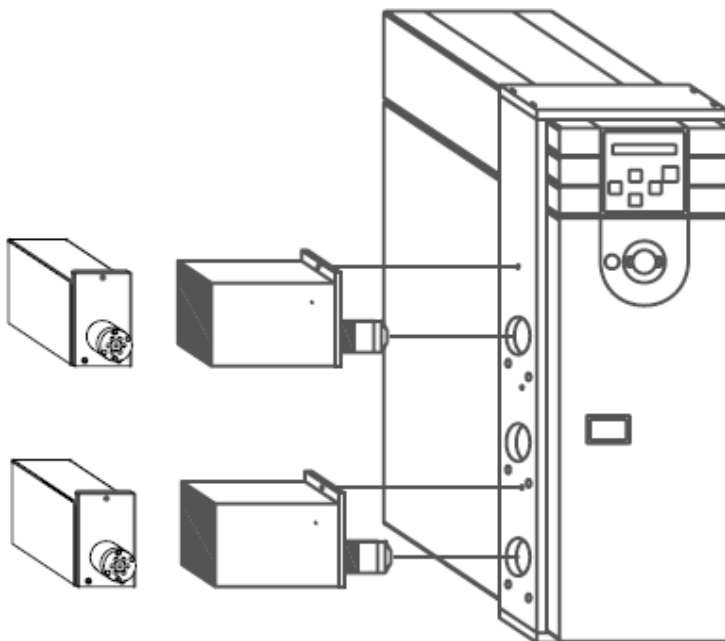
The computer must be equipped with two available COM ports !

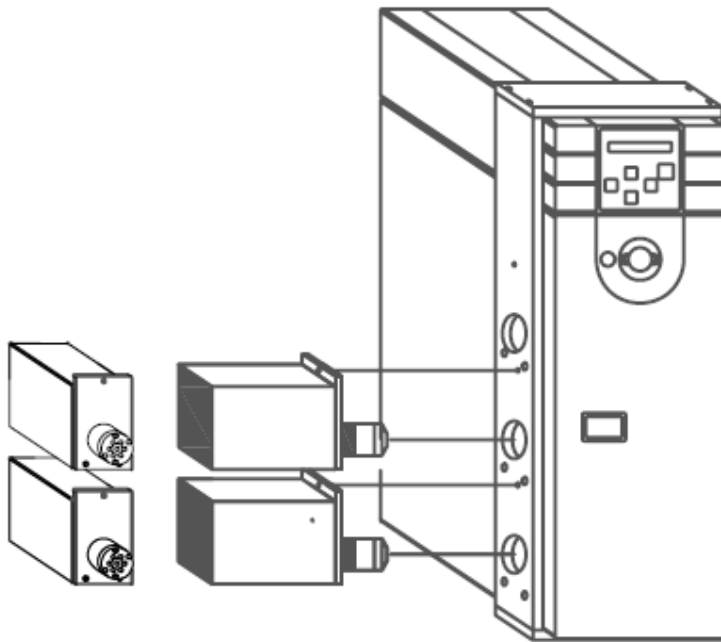
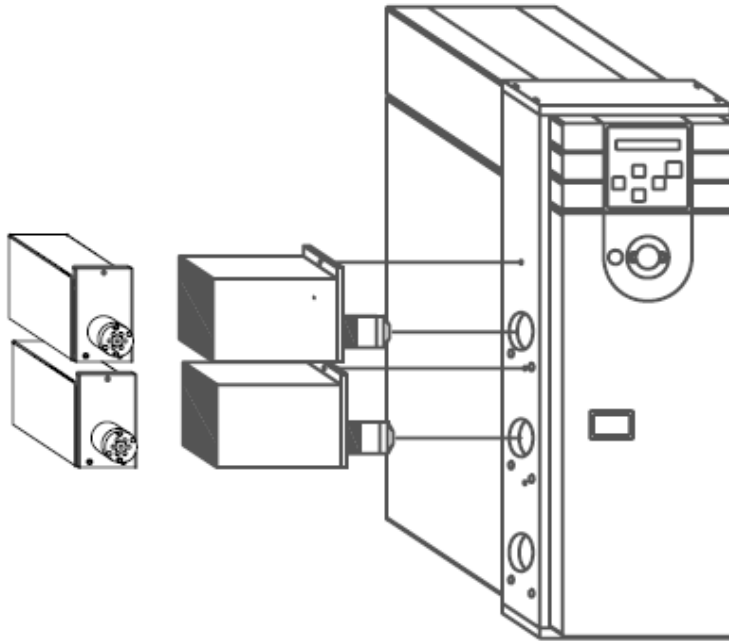
Please follow the installation procedure exactly as described below.

- ✓ Unpack the instruments
- ✓ Place the Mistral column thermostat on a stable desk
- ✓ On the left side of the oven, you can see three holes for valve drive mounting

There are three possibilities to mount the valvedrives:

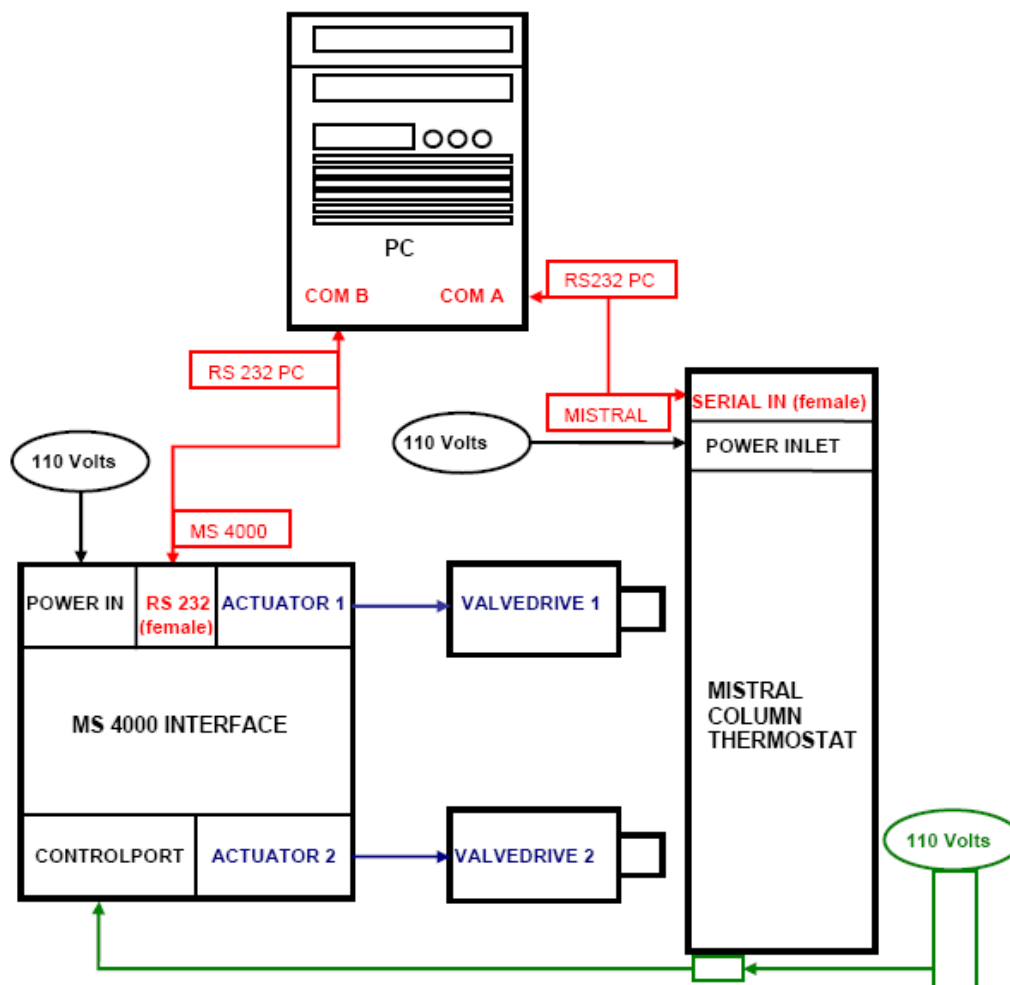
The picture below shows standard factory setting for mounting:





- ✓ Remove the allen screw from the first hole and snap in one valvedrive. Then tighten the screw with the attached allen wrench (2.5mm metric) to fix the valvedrive
- ✓ Remove the allen screw from the second hole and snap in one valvedrive. Then tighten the screw to fix the valvedrive
- ✓ Place the MayLab MS 4000 interface near the Mistral columnoven

## MistraSwitch Electrical Connection Diagram



- ✓ Connect both motor cables to VALVEDRIVE 1 and VALVEDRIVE 2. Be sure that the connector snaps in and fix the connector by turning the nut clockwise.
- ✓ Connect the free cable ends to the MS 4000 interfaces rear side labelled ACTUATOR 1 and ACTUATOR 2
- ✓ Connect the RS 232 cable for the Mistral column thermostat to the SERIAL IN port of the thermostat and to the PC COM A port
- ✓ Connect the RS 232 cable for MS4000 interface to the MS 4000 interface and to the PC COM B port

**CAUTION! The MS 4000 interface and the Mistral oven's RS 232 cables are different. Be sure to use the correct labelled cable!**

- ✓ If the Mistral column thermostat is equipped with an inductive proximity sensor (for checking the door state) you must connect the sensor to the MS4000 interface's CONTROLPORT
- ✓ Connect all power cords to mains
- ✓ Power on the MS400 interface
- ✓ Power on the oven and set it to "Serial Mode" as described below

- |                       |                            |
|-----------------------|----------------------------|
| → Press "Menu/Enter"  | OFF PROG STOP              |
| → Press "right arrow" | OFF P <sup>R</sup> OG STOP |
| → Press "down arrow"  | OFF C <sup>O</sup> MM STOP |
| → Press "Menu/Enter"  | SERIAL XX.X°C              |

**Follow the instructions as described in the dedicated MistraSwitch driver manual for ChromQuest or Xcalibur.**