651 Pressure Controller Pin-outs

NOTE: The MKS RS-232 Serial communications cable (CB651-10-10) must be used for the 9 pin Serial Interface connector. Unlisted pins on this connector are not compatible with the Type "D" 9 pin, industry standard cable.

Serial RS-232 Connector

Pin	Description
1	No Connection
2	Transmit Data
3	Receive Data
4	No Connection
5	Digital Ground
6	Reserved
7	Reserved
8	No Connection
9	No Connection

I/O Connector

Pin	Description
1	PLO relay #1 - NC contact
2	PLO relay #1 - NO contact
3	PLO relay #2 - NC contact
4	Digital Ground
5	Learn system (Low)
6	Hold *both* pins 6 and 11 Low to select analog set point with position control
7	Softstart (Low)
8	Close valve (Low)
9	Reserved
10	Analog set point divided by 10
11	Hold *only* pin 11 low to select analog set point with pressure control Hold *both* pin 6 and 11 low to select analog set point with position control
12	Select set point E (Low)
13	Select set point D (Low)
14	Select set point C (Low)
15	Select set point B (Low)

16	Select set point A (Low)
17	Reserved
18	Reserved
19	Valve open status (Hi=open)
20	PLO relay 1 - common contact
21	PLO relay 2 - common contact
22	PLO relay 2 - NO contact
23	Valve closed status (Hi=closed)
24	Reserved
25	Remote zero (Low)
26	Stop valve (Low)
27	Open valve (Low)
28	PLO #2 status (Low=out of limit)
29	PLO #1 status (Low=out of limit)
30	+15 V Output
31	-15 V Output
32	Power Ground
33	+ Set point Input
34	- Set point Input
35	Analog Ground
36	Pressure output voltage
37	Position output voltage

Transducer Connector

Pin	Description
1	+ 15 V Supply
2	+ Pressure Input
3	Reserved
4	Reserved
5	Power Ground
6	- 15 V Supply
7	+15 V Supply
8	Reserved
9	-15 V Supply

10	Reserved
11	Digital Ground
12	- Pressure Input
13	Reserved
14	Reserved
15	Chassis Ground

Valve Connector Please consult factory