1480A ALTA™ Mass Flow Controller Pin-outs

15-pin Type "D" (MKS)

Pin	Description
1	Valve Test Point
2	Flow Signal Output
3	Valve Close
4	Valve Open
5	Power Common
6	-15 VDC
7	+15 VDC
8	Set Point Input
9	Zero
10	Optional Input
11	Signal Ground
12	Signal Ground
13	No Connection
14	No Connection
15	Chassis Ground

15-pin Type "D" (Alternate)

Pin	Description
1	Signal Ground 1
2	Flow Signal Output
3	Not Used
4	Not Used
5	+15 VDC
6	-15 VDC
7	Valve Test Pt
8	Set Point Input
9	Power Common
10	Signal Ground 2
11	+5 VDC Ref
12	Valve Override

13	Not Used
14	Chassis Ground
15	Ext Sensor Input

9 Pin D

Pin	Description
1	Valve Open/Close
2	Flow Signal Output
3	+15 VDC
4	Power Common
5	-15 VDC
6	Set Point
7	Signal Common
8	Signal Common
9	MKS Test Point

DeviceNet™
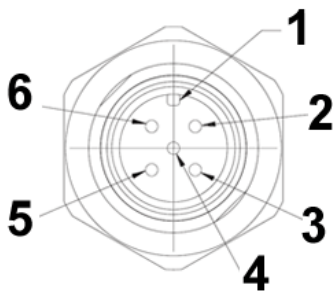
Pin	Description
1	Connector Keyway
2	Drain
3	CAN_H
4	CAN_L
5	V-
6	V+