

mfc Switchbox™ for molbox1™ and MFC-CB™

Supplies power and switches between up to five MFC or MFMs on one molbox1 or MFC-CB channel



DESCRIPTION

The MFC switchbox is an accessory to the molbox1™ MFC option and MFC-CB mass flow control box. This accessory continuously powers up to five MFCs and/or MFMs (DUTs) and allows switching control between them on one molbox1 or MFC-CB channel.

The MFC switchbox contains internal switches to switch between five 25 pin MFC connection ports. molbox1 and MFC-CB support switchbox control allowing MFC switchbox channels to be

changed by simple front panel menu selection or remote ASCII string commands.

The MFC switchbox has its own power supply which is configured to maintain continuous power to all five connection ports simultaneously. This allows an MFC to be tested on one channel while other MFCs are warming up. This feature is particularly useful for the many types of MFCs that require an extensive uninterrupted warm up period to operate within stated specifications.

The MFC switchbox supports COMPASS® for molbox software's split control in which an MFC of one range can be used to automatically control the flow to measuring DUTs (such as MFMs) of other ranges. The controlling MFC is connected to channel 1 and the measuring DUTs are connected to the other four channels. *Note: MFC switchbox is intended for use with voltage based MFCs. Only one current based MFC at a time can be connected.*

The MFC switchbox is connected to the molbox1 or MFC-CB MFC control connection and the switchbox communications port using cables supplied with the switchbox. The MFC connection cables (not included) are the same as those used when connecting directly to molbox1 or MFC-CB.

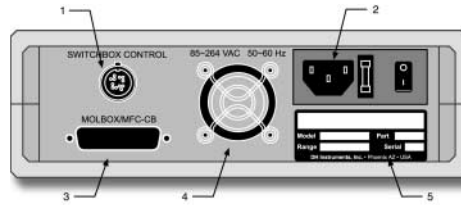


Calibration Solutions
for Pressure
and Flow™

PANELS



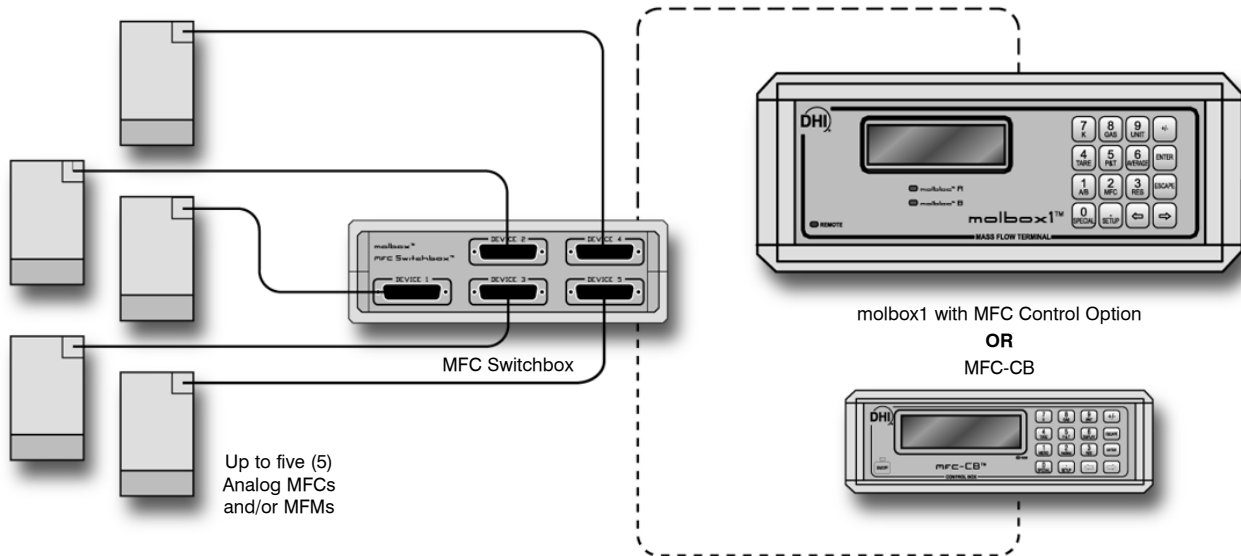
Front



Rear

1. To molbox/MFC-CB switchbox control
2. Electrical power connector (IEC320-C13)
3. To molbox/MFC-CB port
4. Fan
5. Product label

SET UP SCHEMATIC



SPECIFICATIONS

Power Requirements: 85 to 264 VAC, 50 to 60 Hz,
55 VA max. consumption

Cooling: Active fan driven air circulation

MFC Power Supply: ± 15V, 260 mA per channel
on up to five channels

MFC Port Connectors: Five 25 pin female DSUB metal case socket

MFC Valve Test Point and Current Measurement:
Available only on Channel 1

Weight: 1.5 kg (3.25 lb)

Dimensions: 22.5 cm W x 7.5 cm H x 20.0 cm D
(8.85 in x 2.95 in x 7.87 in)

ORDERING INFORMATION

MFC Switchbox is delivered complete with:

- MFC Switchbox control cable
- molbox1 or MFC-CB to MFC Switchbox cable
- Power cord
- User's manual

Product Designation: MFC Switchbox

Part Number: 401347

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Due to a policy of continual product improvement, product specifications,
descriptions and features are subject to change without notice.