

FloBoss™ 107 Multi-Variable Sensor (MVS) Modules

The Multi-Variable Sensor (MVS) module provides differential pressure, static pressure, and temperature inputs to the FloBoss™ 107 Flow Manager (“FB107”) for orifice flow calculation.

The MVS module provides the isolated, short-circuit current-limited power required to connect up to six MVS transmitters (see *Product Data Sheet MVS205*). You can install one MVS module in the FB107.

You can install the MVS module in any slot on the FB107 and expansion rack except slot 0, where the CPU module resides. The MVS module provides EIA-485 (RS-485) communications and power to remote MVS transmitters.

You configure the MVS modules using ROCLINK™ 800 Configuration Software.

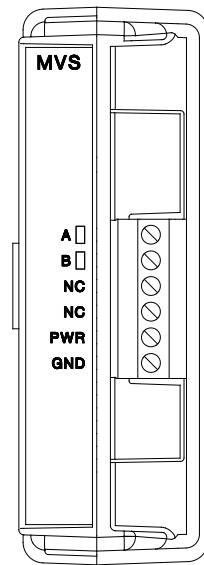
The MVS module is isolated from other modules and the backplane. The field interface protects the electronics in the module. Each module reduces the effect of noise on communication errors through filtering.

The modules have removable terminal blocks for convenient wiring and servicing. The terminal blocks can accommodate size 16 to 24 American Wire Gauge (AWG).

Each MVS transmitter is scanned once every second with values for differential pressure, static pressure, and temperature being accessed for inputs for flow calculations, history, calibration, and alarming.

Each input unit is based on selected system units:

	Differential Pressure Units	Static Pressure Units	Temperature Units/ROC
English Units	In H2O	PSI	Deg F
Metric Units	kPa	kPa	Deg C

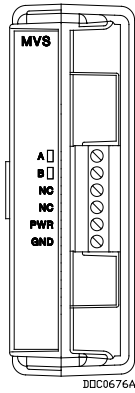


DDC0676A

MVS Module

FB107 Multi-Variable Sensor Module

Field Wiring Terminals



Terminal	Label	Definition
1	A	Receive / Transmit +
2	B	Receive / Transmit -
3	NC	No Connection
4	NC	No Connection
5	PWR	+ (Sensor Power)
6	GND	- (Common)

Communications

Provides communications interface and field power for up to six remote MVS transmitters. One-second updates occur for differential pressure, static pressure, and temperature for each of the attached transmitters.

Over-Voltage Protection

The voltage to the transmitter is the greater of 12 Vdc or the system input voltage. Over-voltage protection is 28 volts.

Power

Consumption 150 mW not including attached MVS transmitters.

Physical

Dimensions 82.55 mm H by 25.4 mm W by 127 mm L
(3.25 in. H by 1.0 in. W by 5.0 in. L)

LEDs	A (upper)	On when transmitting
	B (lower)	On when receiving

Weight 113.4 g (4 oz.)

Wiring 16 to 24 AWG at the removable terminal block.

Environmental

Same as the unit in which it is installed.

Approvals

Same as the unit in which it is installed.

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