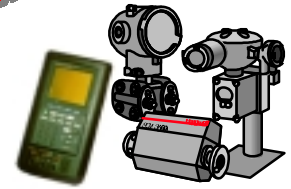




## Multivariable Calibrator Interface for Smart Transmitters

**Preliminary**



- Enables In-Place Transmitter Calibration in Digital Mode.
- Works with Any Manufacturers' Analog Calibrator.
- A Diagnostic Field Tool which Complements SFC and SCT.

### DESCRIPTION

The **Multi-Variable Calibrator, MVC** interface for smart transmitters enables the calibration of Honeywell Smart™ Transmitters, while remaining in the Digitally Enhanced (DE) mode, with any manufactures' analog input calibrator.

The **MVC** monitors the transmitter 'PV1' digital output and transmitter diagnostic GROSS STATUS, and provides a high precision analog repeat output with simple visual status LED indicators.



The **MVC** is independently battery-powered for ease of use with any analog voltage input calibrator.

The **MVC** works with any single or multivariable transmitter and is automatically updated at the same rate as the DE signal. Because the **MVC** uses Honeywell's robust all-digital bi-directional DE communications protocol, there are **no** disturbances from handheld communicator usage.



### FEATURES

- ◆ **Visual Indications of Valid DE Communications and Transmitter Status.**
- ◆ **Compatible with Any DE Transmitter.**
- ◆ **Works with Single or Multivariable Transmitters.**
- ◆ **Portable and Battery-Powered.**
- ◆ **Accepts Standard Honeywell SFC or SCT Transmitter Clip Leads.**

## COMPATIBILITY

The **MVC**, Multivariable Calibrator Interface for Smart Transmitters, is fully compatible with ANY single variable or multivariable DE transmitter, communicators and system I/O interfaces.

## Ordering Information

A printed User Guide is shipped with each order.  
Honeywell transmitter clip leads are NOT supplied.

Model #: MVC

Price: \$ 899.

### Specifications: (PRELIMINARY - subject to change)

# Input Channels:	1
Input Type:	Honeywell DE, 4 or 6 byte, multivariable broadcast formats A thru F [ <i>listen</i> only]
Field Connectors:	jack (for removable Honeywell clip leads)
Input (Loop) Loading:	10 Kohms, min.
Analog Output:	1 @ 1-5 volts, nom. $\pm 10\%$ over/under-range, min.
Analog Output Accuracy:	Reference: $\pm 0.045\%$ F.S., into 10 Kohms, min. @ 25°C $\pm 0.2\%$ F.S., into 10 Kohms, min. @ -20°C to 70°C
Analog Output Resolution:	13 bits
Analog Out Update Rate: (PV)	3.6/sec. @ 4 byte mode <sup>1</sup>
(PV)	2.7/sec. @ 6 byte mode <sup>1</sup>
Analog Out Throughput Delay:	500 msec., max. to 99.9% of new PV value
Bad Status State:	Analog Output = Fail-Safe Low (<1 volt), STATUS LED = ON
PV Selections:	PV1, PV2, PV3 and PV4
"Output Mode":	Passed through to analog output as a valid PV value.
LED Indicators (2): DE	Yellow: <u>ON</u> when valid DE signal is present.
STATUS	Red: <u>ON</u> for Critical Transmitter Status, Bad PV or MVC fault.
Test Mode:	Momentary push-button activated.
Field Communicator Interaction:	No impact to PV accuracy or status state.
Power & Consumption:	(3) 9-Volt alkaline batteries (MN1604) provides 7 hours of continuous operation, typ. Manual ON/OFF switch
Transmitter Power:	n/a
Size:	6"H x 4"W x 1.5"D (approx.)
Operating Temperature Range:	-20°C to +70°C, ambient (may be limited by battery selection)
Storage Temperature:	-55°C to +125°C, ambient (excluding batteries)
Operating Humidity:	10-95% RH, max. non-condensing

<sup>1</sup> The actual rate depends on the broadcast format configured in the field instrument.

**Made in USA**