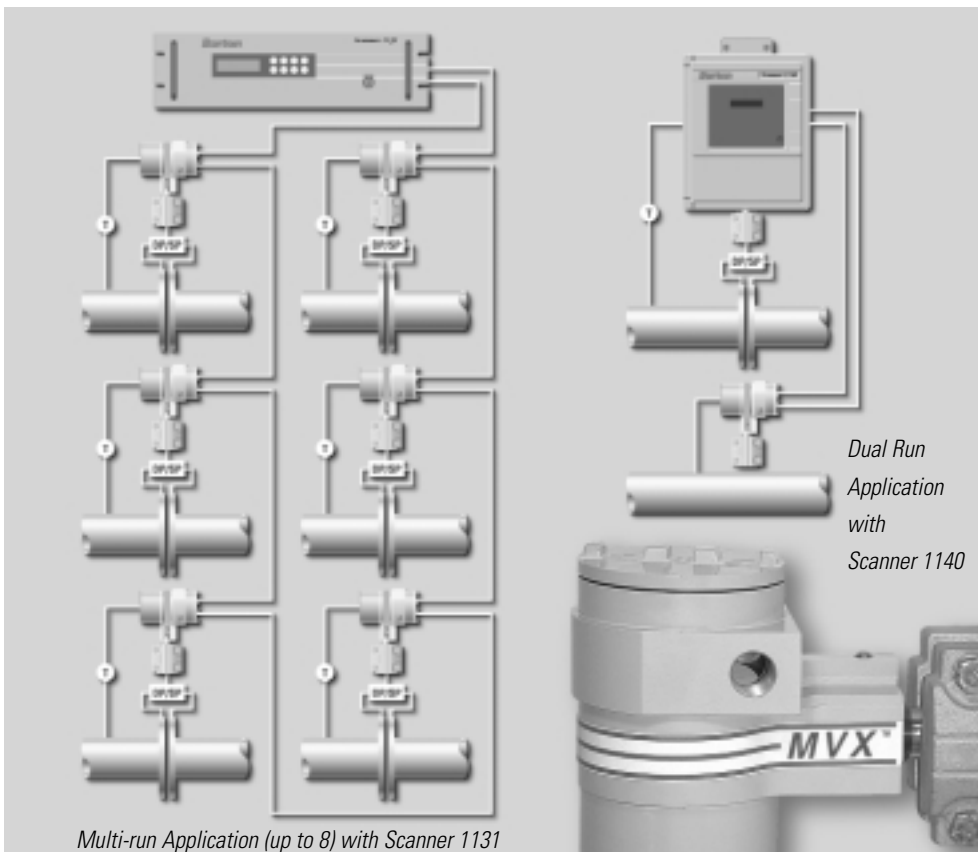


NuFlo™

# MVX™ Multi-Variable Transmitter



- Powerful enhancement to NuFlo's Family of Scanner EFM/RTUs
- Scalable measurement and control platform for single to multistream flow runs
- Intrinsically safe, low power package

Successfully applying the technology of multi-variable transmission to the specific requirements of natural gas takes an in-depth understanding of the process and a commitment to providing solutions.

After 60 years in the business of measuring, monitoring and control, NuFlo Measurement Systems is uniquely qualified, and proud to introduce, the right product for the job – the MVX Multi-Variable Transmitter. Built on the proven field experience of a patented, silicon-based DPE cell, the MVX Transmitter combines the accurate and stable measurement of differential pressure, static pressure and temperature with high speed input sampling/averaging and communications capabilities.

In combination with NuFlo's 1140 and 1131 EFM/RTUs, the MVX provides the natural gas industry with a truly scalable measurement and control platform for single stream wellhead applications through to multi-stream (up to 8) transmission measurement station applications.

## Specifications

<b>Environmental</b>	Operating Temperature	-40° F to +140° F (-40° C to +60° C)				
	Relative Humidity	0-95%, non-condensing				
	Enclosure	NEMA 4, fiberglass reinforced plastic				
	Noise Immunity	Less than 0.5% shift in any reading when exposed to 80 Mhz to 1 Ghz at a level of 3 V/m				
<b>Hazardous Area Approvals</b>	CSA Intrinsically Safe, Class 1 Div 1, Groups C & D					
	CSA Non-Incendive, Class 1, Div 2, Groups C & D					
<b>Connections</b>	Electrical	(2) 1/2" NPT conduit connections (one for RTD Assembly)				
	Process	(2) 1/4" NPT on 2-1/8" centers				
	RTD Assembly	1/2" NPT compression fitting for 0.250" ID straight thermowell (field adjustable insertion length to 12" maximum)				
<b>Materials</b>	Cell Process Covers	Carbon Steel or 316 Stainless Steel				
	Bolting	Carbon Steel or 17-4PH Stainless Steel				
	Electronics Housing	Epoxy coated aluminum				
<b>Power Supply</b>	Input Voltage	9-30 Vdc				
	Power Consumption	2-10 mA typical, depending on sampling speed and communications interval				
<b>A/D System</b>	Resolution	16 bits				
	Linearity Error	±0.015% typical				
	Throughput	User settable from 16 per sec to 1 every 32 secs				
<b>Communications</b>	Signal	RS-485, 2 wire half duplex				
	Baud Rates	1200, 2400, 4800, or 9600, software selectable				
	Parity	None				
	Stop Bits	1				
	Termination Protocol	Depluggable, elevator style terminal blocks RJ-45 for future local terminal device Modbus RTU mode				
	<b>Process Variables</b>	Differential Pressure	0-150"wc	Safe Working Pressure	2500 psig on all ranges up to and including 0-2500 psi	
0-300"wc			3750 psig on 0-3000 psig range			
0-500"wc						
Static Pressure		0-300 psi	Accuracy	± 0.1% of span		
		0-500 psi		Stability	±0.1% of span/6months	
		0-1000 psi			Temperature Effect	±0.25%/100° F
		0-1500 psi		Static Pressure Effect-Zero		±0.1%/2500 psig
		0-2500 psi			Temperature Range	-50 to +250° F
		0-3000 psi		Type		100 ohm, 3 wire platinum RTD (DIN standard)
			Accuracy (Transmitter Only)		±0.45° F at room temperature	
			Temperature Effect (Transmitter Only)	±0.01° F measurement error/ ° F ambient change		



A NuFlo Technologies Company

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