

# Dresser MC3 Electric Volume Correctors

MC3 Nexus and MC3 Guardian (Differential Pressure Monitoring)



## Performance

Display Resolution	
Volume	0.01 CF
Line Pressure	0.01 psi
Temperature	± 0.1°F
Supercompressibility (Fpv <sup>2</sup> )	0.0001
Correction Factor	0.0001
Differential Pressure	0.001 in. WC
Accuracy	
Line Pressure Transducer	0.1% FS
Line Temperature	0.9°F (.5°C)
Combined Accuracy	0.5% corrected volume
Long Term Stability At Reference Conditions	
Pressure	± 0.05% FS/Year (Typical) ± 0.1% FS/Year (Maximum)
Meter Trim Table	
Meter Accuracy Correction Range	0.3% to 10% Qmax
E <sup>2</sup> PROM Data Log Memory	
Time-stamped Entries	Up to 416 days of hourly logged data
Parameters Logged	Up to 21 logged parameters
Battery	
Metrology Sealed Pack	10 years typical
Inputs	
Volume	Integrated Solid State Volume Sensor
Pressure	Digital, Plug and Play Pressure Transducer
Temperature	Digital, Plug and Play Temperature Sensor

## Fully Programmable Pulse Outputs

Corrected, Uncorrected, and Alarm/Fault	
Loop Voltage	3-24V DC
Loop Current	1uA - 10 mA
Pulse Width*	16-500 ms
Pulse Output Volume Increments	1 cf, 10 cf, 100 cf, 1000 cf, 10000 cf
Output Type	Metrology Board and Option Board both offer the ability to provide either: 3 Form A and 1 Form B, OR 2 Form A and 1 Form C
Environment	
Operating Temperature	-40°F to +140°F, (-40°C to +60°C)
Ambient Storage Temperature	-40°F to +140°F, (-40°C to +60°C)
Relative Humidity	Up to 95% sustained non-condensing
Enclosure	
Enclosure Degree of Protection	Type 4X Enclosure with IP 66 Rating
Safety	
Hazardous Area Classification	Class 1, Div 2, Groups A, B, C and D Temperature Rating T4
Standards Met:	
	UL 121201
	UL 61010-1
	UL 60086-4
	EN61000-4-2, Severity Level 4
	EN61000-4-3, Severity Level 3
	FCC Part 15 Class A

## Ordering Information

### The MC3 Nexus and MC3 Guardian Electronic Volume Correctors can be ordered as either:

- An integral part of the meter
- As a Kit to convert existing Dresser meters
- With internal or external temperature connections
- With internal or external pressure connections

Optional piping kits are available for convenient connection of external pressure connections.

### Pressure Piping Kits for MC3 Nexus

	Approved for use to 350 psiG
Length of SS Tubing	Part Number
32"	051416-320
84"	051416-420
120"	051416-520

For MC3 Guardian version, the following piping kits are available:

Length of SS Tubing	Part Number
36"	051416-800

### Battery Packs

Sealed Lithium Pack - P/N 062634-000

#### NOTES:

All components shall withstand up to 150% of transducer range

Differential Pressure monitoring available for line pressures up to 200psi

Differential Pressure monitoring available at flow rates greater than 30% of rated capacity

\*Pulse width maximum selection is limited by Volume input frequency



Snap a shot to learn more.

#### Dresser Measurement

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