Dresser Micro Corrector – IMC/W2
Integral Volume Correction Differential Pressure (DP) Monitoring
Versions: ptz-dp + LOG, T-dp + LOG, ptz + LOG, ptz + LOG, P + LOG, and T + LOG

### Performance

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>0.01 ft³ (0.01 m³)</td>
</tr>
<tr>
<td>Pressure</td>
<td>0.01 psi (1 mbar)</td>
</tr>
<tr>
<td>Temperature</td>
<td>0.1°F (0.1°C)</td>
</tr>
<tr>
<td>Supercompressibility (Fpv2)</td>
<td>0.0001</td>
</tr>
<tr>
<td>Correction Factor</td>
<td>0.00001</td>
</tr>
<tr>
<td>Differential Pressure</td>
<td>0.1 in. WC</td>
</tr>
</tbody>
</table>

### Accuracy

- **Accuracy over Operating Temperature Range**: -40°F to 140°F (-40°C to 60°C)
- **Line Pressure**: 0.2% FS between min & max pressure
- **Line Temperature**: 0.9°F (0.5°C)
- **IMC/W2-PTZ**: 0.5% corrected volume
- **IMC/W2-P**: 0.45% corrected volume
- **IMC/W2-T**: 0.25% corrected volume

### Long Term Stability

- **Pressure**: 0.1% FS/yr non-cumulative
- **Temperature**: 0.3 °F (0.2 °C)/yr non-cumulative

### Meter Trim Table

- **Meter Accuracy Correction Range**: 0.3% to 10% Qmax

### EEPROM Data Log Memory

- **Time-stamped Entries**: Up to 32,161 (depending on the number of Parameters logged)
- **Parameters Logged**: Corr Vol; Uncorr Vol; Fault Vol; Corr Factor; Supercomp; Avg and Peak Corr Flow Rate; 4 Pressures – Min, Max, Avg and Ending; 4 Temps – Min, Max, Avg and Ending; Batt Voltage; Differential pressure test results on units fitted with DP transducer

### Battery - Lithium

- **Sealed Pack**: 15-years nominal life
- **Low Battery Reserve**: 1.5-years

### Inputs

- **Volume**: High speed magnetic pickup in meter magnet cup
- **Pressure**: Proprietary semiconductor strain gauge
- **Temperature**: ITS-90 Platinum 100Ω RTD = 0.00385

### Three Fully Programmable Pulse Outputs

- **Corrected, Uncorrected, and Alarm/Fault**
  - **Loop Voltage**: 5-15 VDC
  - **Loop Current**: 10 mA maximum
  - **Pulse Width**: 62.5, 125, 187, or 312 ms
  - **Switch Off Resistance**: > 2 Mohms
  - **Switch On Resistance**: <10 ohms
  - **Isolation**: 2,500 VDC
  - **Output Type**: Form A

### Environment

- **Operating Temperature**: -40°F to 140°F (-40°C to 60°C)
- **Storage Temperature**: -58°F to 176°F (-50°C to 80°C)
- **Humidity**: Up to 95% sustained outdoor exposure
- **Enclosure**: NEMA 4X (IP66)
- **Intrinsic Safety**: IEEE ia IIC T4 Tamb = -40°C to 60°C
  - **Class-I, Division-1, Group A, B, C, D**: BAS98ATEX 1083

### Electromagnetic/Radio Frequency Immunity

- **FCC Class B**: Meets EMI/RFI immunity at 10 V/m, 0.1 to 1,000 MHz
  - **EN50081-1 and EN5088-2**

### Other

- **ISO-9001, CE Mark**
Ordering Information

The IMC/W2 with or without DP can be ordered as either:

- An integral part of a new meter.
- As a kit to convert existing Dresser Series-A (LMMA), Series-B (TQM), or Romet meters.

For P and PTZ versions

The IMC/W2 is available in the following pressure transducer ranges:

<table>
<thead>
<tr>
<th>Transducer Range</th>
<th>Gauge</th>
<th>Absolute</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 psi (2 bar)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>180 psi (12 bar)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>350 psi (24 bar)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1000 psi (70 bar)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1500 psi (100 bar)</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Pressure Transducer Accuracy Reference Table

- **2 Bar (30 psi) A**
  - MC maximum error of 0.2% FS of reading from 0.8 Bar A to 2.0 Bar A over operating temperature range of -40°F to 140°F (-40°C to +60°C)
- **2 Bar (30 psi) G**
  - MC maximum error of 0.2% FS of reading from 0 Bar G to 2.0 Bar G over operating temperature range of -40°F to 140°F (-40°C to +60°C)
- **12 Bar (180 psi) A**
  - MC maximum error of 0.2% FS of reading from 2 Bar A to 12 Bar A over operating temperature range of -40°F to 140°F (-40°C to +60°C)
- **12 Bar (180 psi) G**
  - MC maximum error of 0.2% FS of reading from 2 Bar G to 12 Bar G over operating temperature range of -40°F to 140°F (-40°C to +60°C)
- **24 Bar (350 psi) G**
  - MC maximum error of 0.2% FS of reading from 5 Bar G to 24 Bar G over operating temperature range of -40°F to 140°F (-40°C to +60°C)
- **30 Bar (430 psi) A**
  - MC maximum error of 0.2% FS of reading from 5 Bar A to 30 Bar A over operating temperature range of -40°F to 140°F (-40°C to +60°C)
- **70 Bar (1000 psi) A**
  - MC maximum error of 0.2% FS of reading from 5 Bar A to 70 Bar A over operating temperature range of -40°F to 140°F (-40°C to +60°C)
- **70 Bar (1000 psi) G**
  - MC maximum error of 0.2% FS of reading from 5 Bar G to 70 Bar G over operating temperature range of -40°F to 140°F (-40°C to +60°C)
- **100 Bar (1500 psi) A**
  - MC maximum error of 0.2% FS of reading from 5 Bar A to 100 Bar A over operating temperature range of -40°F to 140°F (-40°C to +60°C)

Pressure Piping Kits for Non-DP versions

<table>
<thead>
<tr>
<th>Length of SS Tubing</th>
<th>Approved for use to 350 psig G</th>
<th>Approved for use to 1480 psig G</th>
</tr>
</thead>
<tbody>
<tr>
<td>32”</td>
<td>051416-320</td>
<td>051416-310</td>
</tr>
<tr>
<td>84”</td>
<td>051416-420</td>
<td>051416-410</td>
</tr>
<tr>
<td>120”</td>
<td>051416-520</td>
<td>051416-510</td>
</tr>
</tbody>
</table>

For IMC/W2-dp version, the following piping kits are available:

<table>
<thead>
<tr>
<th>Length of SS Tubing</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>36”</td>
<td>051416-600</td>
</tr>
<tr>
<td>36” with Pipe Plugs</td>
<td>051416-610</td>
</tr>
<tr>
<td>36” with Test Plugs</td>
<td>051416-620</td>
</tr>
</tbody>
</table>

Battery Packs

- Sealed Alkaline Pack - P/N 055362-000
- Sealed Lithium Pack - P/N 060587-000

Dresser Meters & Instruments

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