Features & Benefits

- ExactRead™ technology for exact match from meter to website
- Affordable and reliable remote meter reading with streamlined design
- More frequent data for timely water management decisions
- Pre-assembled on new meters for simplified installation
- Retrofits on existing meters in less than 30 minutes

Applications

- Billing and accounting
- Conservation
- Regulation and allocations
- Planning and development
- Operations and metering

Compatibility

- Mc Propeller - Mechanical and Digital Registers
- Water Specialties Propeller - Digital Register ONLY

Technical and Performance Specifications

<table>
<thead>
<tr>
<th>Communication</th>
<th>Cellular</th>
<th>Satellite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Type Protocols</td>
<td>GSM/GPRS</td>
<td>Iridium</td>
</tr>
<tr>
<td>Antenna</td>
<td>External Bulkhead Extension TNC Antenna 800/1800/1900 MHz</td>
<td>External Bulkhead Extension TNC Antenna 1,600 MHz</td>
</tr>
</tbody>
</table>

Power

| Batteries | Batteries can be replaced by user on-site
Battery Only: 2 Primary D-Cells 3.6V 13Ah
Rechargeable: 1 Primary D-Cell 3.6V and 3 Secondary C-Cells, 1.2V in series |
| External Power | Requires Rechargeable Battery Configuration listed above.
Recommended 9-12 VDC, 0-1000mA Max: 14.5 VDC (Power supply or solar panel) |
| Recommended Battery Replacement Interval | Battery Only: 3 years (Daily Report Interval)
Rechargeable: 4 years |

FlowConnect™ FC500 and FC501 System for Mc Propeller™ and Water Specialties™ Flow Meters

Your trusted partner for water meters now offers an innovative built-in remote meter reading option, FlowConnect.

McCrometer’s latest development in flow metering technology provides districts, growers, and irrigators with a new solution to meter data collection.

This built-in telemetry system for McCrometer Flowmeters is designed to provide easy access to meter data without requiring additional hardware.

FlowConnect can be added to any new or existing McPropeller or Water Specialties Propeller flowmeter.
### Environmental

- **Operating Temperature**: -30°C to 70°C (-22°F to 158°F)
- **Electrical / Mechanical Protection**: All electrical components are grounded to fluid column and pipe. Manufactured in accordance with IP-67 Standards and ESD-safe
- **Environmental Protection**: Ingress Protection (Dust Tight / Water Tight) to IP67
  - Vibration proof while operating:
  - Validated Vibration and 20G Sinusoidal testing to JEDEC 22B103B Section 4.3, Table 3, Service Condition C, for all axis and 20G sin sweep 20 - 2,000Hz for all axis.
- **Tamper Protection**: Factory installed tamper-evident wire lock system

### Other Characteristics

- **Mounting**: Top Plate compatible with any McCrometer Propeller or Water Specialties (Digital Register Only)
- **External Interface**: Five-pin serial-USB cable
- **Flow Indicator**: Digital Register or McPropeller Mechanical Register
- **Operating Temperature**: -30°C to 70°C (-22°F to 158°F)
- **Inputs**: Two analog sensors, 1 pulse accumulator (for rain gauge)
- **Outputs**
  - **Mechanical Register**: None
  - **Digital Register**: 4-20 mA, Open Collector Pulse, Dry Contact Pulse, Optically Isolated Pulse (via 5-pin output cable)
- **Data Collection Method**
  - **Digital Register**: Serial interface between FlowConnect and digital register allows FlowConnect to read totalizer and rate value directly. No pulse counting required and always a perfect match.
  - **Mechanical Register (McPropeller only)**: Pulse counter and high-low digital signal for forward-reverse pulses. Accuracy between meter and Web totalizer: ±0.25%
- **Data Storage**: Capable of storing up to 1,000 reports in local memory

### Accessories

- **Optional Protective Cover**: Gray boot cover, p/n TOB065
- **Serial Accessories**: 200.720.542 serial-USB cable
- **Power Accessories**
  - **Battery Only**: No Power Accessories
- **Sensor Accessories**: Adcon PA1 Cables - Pressure 10bar 500.000.120 - 16 ft. Cable 500.000.119 - 32 ft. Cable 200.733.048 - RGI Rain Gauge 200 200.720.510 - Y Cable 200.733.902 - A902 1/2/3 Cable
- **Communication Accessories**
  - **Cellular**: 900.000.590 TNC Rigid Antenna (Included) 900.000.565 Directional Antenna 900.000.567 Extension Antenna
  - **Satellite**: TOB039 Helical Antenna (Included) MCC-510-AI-A Extension Antenna, Magnet Mount

### Dimensions

<table>
<thead>
<tr>
<th></th>
<th><strong>Cellular</strong></th>
<th><strong>Satellite</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Network Type</strong></td>
<td>W x D x H</td>
<td>W x D x H</td>
</tr>
<tr>
<td><strong>Unit Enclosure Size</strong></td>
<td>6.5” x 5.6” x 9.9”</td>
<td>6.5” x 5.6” x 9.8”</td>
</tr>
<tr>
<td><strong>Non-Rechargeable</strong></td>
<td>6.5” x 6.1” x 9.9”</td>
<td>6.5” x 6.1” x 9.8”</td>
</tr>
<tr>
<td><strong>Rechargeable</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Packaged Dimensions</strong></td>
<td>11” x 11” x 11”</td>
<td>11” x 11” x 11”</td>
</tr>
<tr>
<td><strong>Packaged Weight</strong></td>
<td>6 lbs.</td>
<td>6 lbs.</td>
</tr>
</tbody>
</table>

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