

## Cathodic Protection Monitoring With Digital Cellular

When you need remote monitoring of cathodic protection assets, the Metrotek CPM-I and CPM-II deliver the highest performance available. These compact units combine the latest in digital cellular communications with Metrotek's quality and experience in CP parameter recording accuracy. Flexibility in design means options like a two input model (CPM-I) and one with eight inputs (CPM-II), synchronous rectifier interruption and a choice of AC mains, Solar or Battery operation. And of course, the CPM line is compatible with Metrotek's DC2000 and CPMII data acquisition and publishing systems.



CPM-II pictured

### Features & Benefits:

- GSM/GPRS or CDMA 1XRTT cellular
- Choice of 2 or 8 channel units
- Stores data in intervals from 1 sec. to 24 hr.
- Battery or Solar or AC mains powered
- Optional control outputs
- Full set of operating alarms
- Designed for rugged outdoor operations
- Windows™ 32 bit programming software

### Specifications: (subject to change without notice)

#### Cellular Network Communications:

Supports GSM and CDMA cellular carriers operating their Networks at 850, 900, 1800, and 1900 megahertz.

#### Power Options:

*Battery Model:* Secondary 6Vdc gel-cell for cellular power. Primary 6Vdc lantern dry cell w/charger for long-term capacity of approximately 24 months, depending on use (phone home operation only).

*AC Mains Model:* Requires 7-8Vac @1 amp source. Regulator-charger and 6Vdc secondary backup battery will provide approximately 5 days backup. AC Mains to low voltage adapter optionally available.

*Solar Model:* Consult with factory to determine size and ratings of solar panel and batteries.

#### Physical:

Battery and AC Models  
Enclosure: Lexan rated NEMA-4X (IP54)  
Exterior Dimensions: Approximately 11(28) x 6(15) x 9(23) inches (cm).  
Weight: Approximately 10lbs. (4.5Kg)

#### Environmental:

Operating Temp Range: -30 to +55 C  
Operating Humidity to 90% non-condensing

#### Certifications:

- Fully type approved, GSM Phase 2+ compliant. IS95, IS2000 for CDMA
- FCC part 15 (class B) and part 24
- CE mark
- UL listed AC Mains adapter

#### Model CPM-I:

##### Input Channels:

Two each: Analog. Range 50mv-150Vdc by jumper. Impedance > 10Mohm

Two each: Digital event (alarm), dry contact or open collector (OC), 40ms pulse width, 10ms bounce.

#### Model CPM-II:

##### Input Channels:

Eight each: Analog. Range 100mv-200vdc by jumper.

Impedance: 500K to >10M depending on input  
Four each: Digital event (alarm) dry contact/OC, 40ms pulse width, 10ms bounce.

One each: Digital Counter (pulse accumulator) up to 100 pulses/second, 40ms width, 10ms bounce, dry contact/OC

##### Output Channels:

Two each: Digital sink or source 100mA max.