The Elecsys SentraGate CP is an expandable system designed to monitor measurements from cathodic protection sites as well as sensors/transducers. When used in conjunction with Elecsys SentraNodes, a total of 8 sensor/transducer sites within 500 meters of the base station can be measured and monitored.

**SentraGate CP details:**
- 2 Voltage Channels
- 2 Sensor Channels
- 1 Digital Channel
- Local area 2.4 GHz radio provides connectivity for up to 6 SentraNodes

**SentraNode ST details:**
- 2.4 GHz local radio connection back to base unit
- Range up to 500 meters line-of-sight
- Accepts inputs from any 4-20mA, 0-5V, or 0-10V sensor/transducer device
- Provides sensor excitation voltage
- Estimated 3-5 year battery life for normal field applications

**APPLICATIONS**
- Well site monitoring
- Remote valve site monitoring
- Regulator station monitoring
- Tank level monitoring
- Injection skid monitoring
- CP system monitoring

**FEATURES**
- Programmable over the web
- Surge resistant circuitry
- Rechargeable NiCd backup battery in the base station for notification of power failure, and 3-5 year lithium battery in the SentraNode
- 2 analog voltage inputs, 2 sensor/transducer inputs, with expandability for 6 additional sensor/transducer inputs

**Manufactured in the USA**
## SENTRAGATE CP SPECIFICATIONS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CDMA: SGC-00-N1</th>
<th>GSM: SGC-00-N3</th>
<th>MODBUS: SGC-00-L1</th>
<th>IDP: SGC-00-53</th>
</tr>
</thead>
</table>

### Input Connections (CP)
- Channel 1 & 2 - Rectifier voltage ±100VDC @ 1% of measurement accuracy and 10mV resolution
- OR (selectable) - Pipe to soil potential range ±10VDC @ 1% of measurement accuracy and 1mV resolution (>10 MΩ input impedance)
- Sample frequency on channels 1&2 - Every 1-24 hrs. (1hr increments)

### Input Connections (sensor/transducer)
- Channel 3 & 4 - Sensor excitation voltage 24VDC
  1-5 Volt 3-wire sensor (1% of measurement accuracy and 1mV resolution)
  1-10 Volt 3-wire sensor (1% of measurement accuracy and 1mV resolution)
  4-20 mA 2-wire sensor (1% of measurement accuracy and 1uA resolution)
  4-20 mA 3-wire sensor (1% of measurement accuracy and 1uA resolution)
- Sample frequency on channels 3&4 - Every 1 min, 10 min, 1 hr, 4 hrs, or 24 hrs

### Input Connection (digital)
- Channel 5 - Digital input configurable for dry-contact alarm or status reporting (normally open or normally closed), or for pulse accumulation

### Power
- Power required: 10-35VDC or 12-25VAC external power input
- Internal rechargeable NiCd battery pack provides backup power for alarm notification in the event of a power failure
- Power consumption: 1.8W @15V typical, 20W transmitting

### Operating Environment
- Temperature: -40°C to +85°C (-20°C to +70°C in battery backup power mode)
- Humidity: 0-95% non-condensing
- Enclosure: Lockable NEMA 4X polycarbonate

### Size
- 6.5” (155mm) x 8.5” (215mm) x 4” (102mm)

### Installation
- Universal brackets included for mounting inside a cabinet, pole mount, or post mount
- Connection cables: 1 ea. 7’ (2.1m) power cable, 1 ea. 7’ (2.1m) measurement cable

---

## SENTRANODE ST SPECIFICATIONS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>SGN-ST</th>
</tr>
</thead>
</table>

### Input Connection
- 4-20 mA 2-wire sensor (1% of measurement accuracy and 1uA resolution)

### Power
- Internal Lithium Thionyl Chloride primary power battery (3-5 year life expectancy, field replaceable)

### Operating Environment
- Temperature: -40°C to +85°C (-20°C to +70°C in battery backup power mode)
- Humidity: 0-95% non-condensing
- Enclosure: NEMA 4X polycarbonate

### Size
- 4.8” (12.2cm) x 4.5” (11.5cm) x 4.1” (10.5cm)

### Installation
- Built-in mounting tabs for mounting to post, PLC cabinet, or junction box 7’ (2.1m) color coded connection cable