

elecsys SENTRAGATE CP

*Expandable Monitoring System for
Sensors, Transducers, and Cathodic Protection*

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



 **Manufactured in the USA**

FEATURES



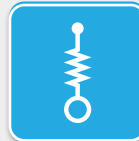
Programmable over the web



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

APPLICATIONS

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

SENTRAGATE CP SPECIFICATIONS

Part Number	CDMA: SGC-00-N1 GSM: SGC-00-N3 MODBUS: SGC-00-L1 IDP: SGC-00-53
Input Connections (CP)	Channel 1 & 2 - Rectifier voltage $\pm 100\text{VDC}$ @ 1% of measurement accuracy and 10mV resolution OR (selectable) - Pipe to soil potential range $\pm 10\text{VDC}$ @ 1% of measurement accuracy and 1mV resolution (>10 M Ω 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

Part Number	SGN-ST
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