CHLORINE SENSOR/TRANSMITTER

CL2-ST-420
September 2011

Features

- High-accuracy electrochemical cell sensor
- Two-wire, loop-powered 4-20mA analog output
- IP66 enclosure
- Micro-chip control

Applications

- Areas using chlorine as a disinfectant (drinking water, sewage, swimming pools)
- Manufacturers using Chlorine in organic and inorganic synthesis (solvents, antifreeze, polymers, pesticides, refrigerants, rocket fuel)
- Pharmaceuticals and cosmetics manufacturing

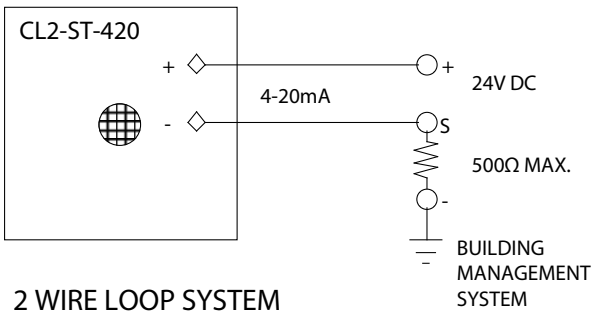
The ACME **CL2-ST-420** Chlorine sensor/transmitter uses a high performance 3-electrode electrochemical sensor to accurately measure Chlorine concentrations.

The transmitter is designed to output a 4-20mA analog signal that spans over a Chlorine detection range of 0-2PPM (other ranges also available).

A standard 2-wire loop-powered operation allows the output signal to ride on the same pair of wires that supply DC power to the sensor/transmitter.

A proprietary design algorithm makes the sensor circuitry immune to local RF interference.

Typical Wiring Diagram for 2-wire 4-20mA



2 WIRE LOOP SYSTEM

Standard unit specifications

SENSOR TECHNOLOGY:	3-electrode electrochemical cell
SENSING METHOD:	Diffusion
POWER SUPPLY:	18-24 VDC
OUTPUT:	4-20mA loop-powered
DETECTION RANGES:	0-2PPM Standard
	(0-5PPM, 0-10PPM optional)
OPERATING TEMP.:	-20°C to +50°C
HUMIDITY RANGE:	15-90% RH
REPEATABILITY:	±2% of signal
RESPONSE TIME (T90%):	< 40 seconds
EXPECTED LIFETIME:	2 years
ENCLOSURE:	Fiberglass reinforced polycarbonate (IP66)
DIMENSIONS:	130mm x 94mm x 57mm

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CERTIFIED BNQ ISO 9001:2008 SYSTEM

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