Features

- High-accuracy electrochemical cell sensor

- Two-wire, loop-powered 4-20mA analog output

- IP66 enclosure

- Micro-chip control

Applications

Signalling changes during seed germination, growth, flower and fruit development, senescence of plant organs, programmed cell death, etc.

The ACME **C2H2-ST-420** Ethylene sensor/transmitter uses a high performance 3-electrode electrochemical sensor to accurately measure Ethylene concentrations.

The transmitter is designed to output a 4-20mA analog signal that spans over a Ethylene detection range of 0-100PPM (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

C2H2-ST-420

4-20mA

+
-

+
24V DC

S

500Ω MAX.

-

BUILDING
MANAGEMENT
SYSTEM

2 WIRE LOOP SYSTEM
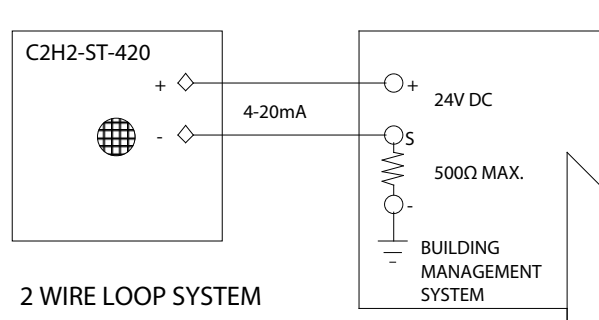
Standard unit specifications

SENSOR TECHNOLOGY:	3-electrode electrochemical cell
SENSING METHOD:	Diffusion
POWER SUPPLY:	18-24 VDC
OUTPUT:	4-20mA loop-powered
DETECTION RANGES:	0-100PPM Standard
	(Other ranges are available)
OPERATING TEMP.:	-20ºC to +50ºC
HUMIDITY RANGE:	15-90% RH
REPEATABILITY:	±2% of signal
RESPONSE TIME (T90%):	< 40 seconds
EXPECTED LIFETIME:	>2 years
ENCLOSURE:	NEMA 3 Cast Aluminum Surface mounting
DIMENSIONS:	175mm x 131mm x 56mm

REPRESENTED BY: