GREYSTONE
ENERGY SYSTEMS INC

Accuracy by Design
Products for the HVAC Professional

Greystone Energy Systems Inc., is one of North America's largest ISO registered manufacturers of HVAC sensors and transmitters for Building Automation Management Systems.

We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support and committing to on-time deliveries. We take pride in our ISO 9001 certified Quality Management System, assuring Greystone customers of consistent product quality and reliability.

Greystone products include:

- Temperature Sensors
- Temperature Transmitters
- Humidity Transmitters
- Static Pressure Transmitters
- Differential Pressure Transmitters
- Gauge Pressure Transmitters
- Air Flow Transmitters
- Air Quality Monitor
- Particulate Matter Transmitters
- Carbon Monoxide Detectors
- Carbon Dioxide Detectors
- Current Switches & Sensors
- Analog to Pneumatic (I/P) Transducers
- Signal Conditioning Interface
- Power Supplies
- Water Detectors

RoHS COMPLIANT   REACH   CE
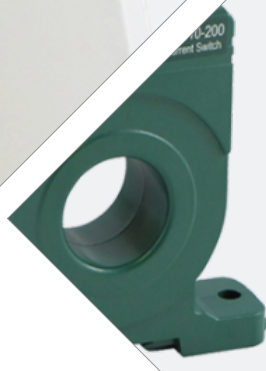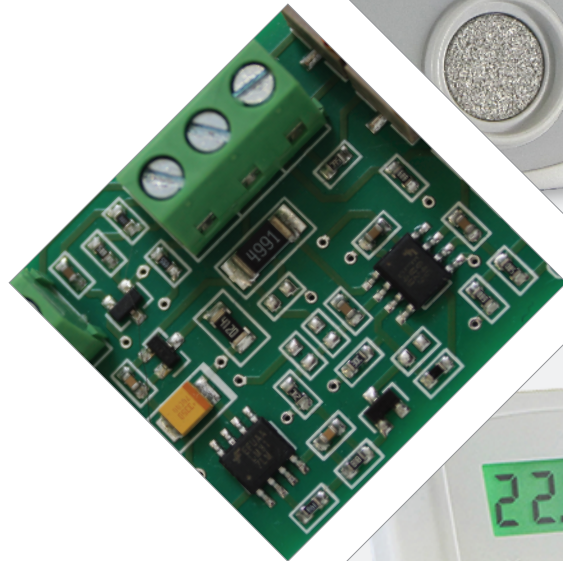
GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

BACnet® & Modbus

Network Sensors feature embedded BACnet® and Modbus communication and are available in several configurations for the most efficient monitoring and control solutions.

- Native BACnet® or Modbus MS/TP protocol
- Setup/calibration fully menu driven
- Powered by either an AC or DC source
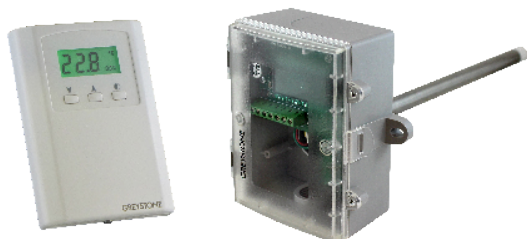
TEMPERATURE / HUMIDITY & DEWPOINT

- Room, duct and outside air models
- Highly stable sensing elements
- Relay and alarm outputs
- LCD available on some models
- Selectable measurement variables
  (RH, dewpoint, dry-bulb, wet-bulb and enthalpy)
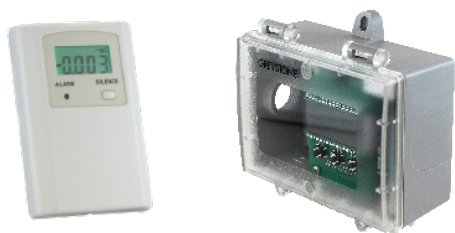
PRESSURE

- Precision silicon sensor
- Uni- or bi-directional pressure ranges
- Multiple pressure ranges for each (W.C. & Pa)
- Relay and alarm outputs
- BACnet® only

AIR & GAS

- Non-dispersive infrared sensor (CO_2)
- Room, duct and outside air (CO_2), space & duct (CO)
- Selectable ranges (CO_2) & (CO)
- Replaceable electrochemical se
- Optional on-board relays with f
- LCD available on some models

TEMPERATURE

## Room, Duct, Immersion, Strap-On & Outside Air

A comprehensive selection of temperature measuring products that are designed and manufactured for long-term stability and performance. Each product provides a repeatable and accurate output signal for efficient temperature monitoring and control.

- Sensors, transmitters and thermostats
- Various enclosure styles
- Multiple configurations available

SENSORS

- Precision thermistor or RTD sensing elements
- Setpoint adjustment, up/down pushbuttons
- Optional override switch, fan speed switch and communications jack
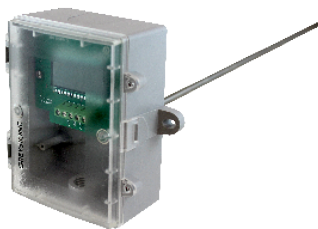
TRANSMITTERS

- Precision RTD sensing element
- High accuracy transmitter
- Choice of scaled ranges
- LCD available on some models
- 3 available output signals

THERMOSTATS

- High and low limit thermostats
- Precision thermistor sensing element
- Multiple configurations available
- Selection of enclosures
- Relay output with adjustable setpoint

HUMIDITY

- Precision RH and temperature sensing elements
- Room, duct and outside air models
- Humidity range: 0 to 100%
- Accuracies available: 2%, 3% & 5%
- Choice of precision temperature sensors
- LCD available on some models
- Field selectable outputs

HUMIDITY / TEMPERATURE

- Precision RH and temperature sensing elements
- Humidity range: 0 to 100%
- Accuracies available: 2%, 3% & 5%
- Choice of multiple temperature ranges
- Options such as override, fanspeed switch and communications jack (Room only)
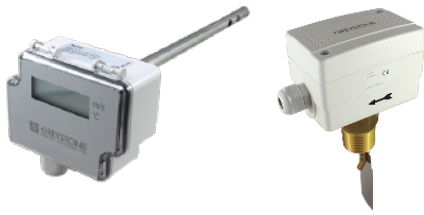- LCD available on some models

DEWPOINT
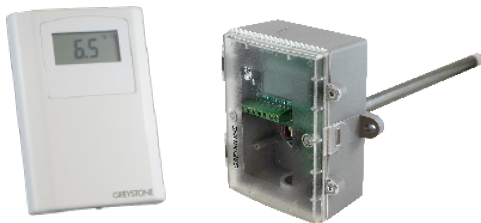
- Precision RH and temperature sensing elements
- Room, duct and outside air models
- 4 user selectable measurement variables (Dewpoint, dry-bulb, wet-bulb and enthalpy)
- 3 output types available (Analog, BACnet®, Modbus)
- Dual analog outputs
- LCD available on some models
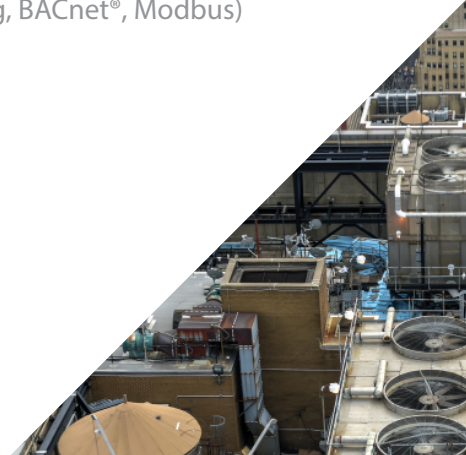
FLOW

### AIRFLOW TRANSMITTER/LIQUID FLOW SWITCH

- Duct air velocity into a 4–20 mA/0–10 Vdc signal
- Telescopic probe facilitates various duct sizes
- LCD Display
- Liquid paddle flow switch
- Adjustable S/S paddle for 1" to 8" pipes
- Contact closure to prove liquid flow

PRESSURE

LOW PRESSURE

- Several monitoring configurations
- Ranges 0.125" W.C. to 20" W.C. (30 to 5000 Pa)
- Uni- or bi-directional pressure ranges
- Selectable pressure ranges for each (W.C. & Pa)
- Available options include LCD display and relay output
- Optional BACnet® communications
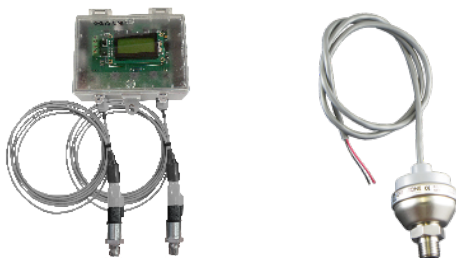
HIGH PRESSURE

- Gage & differential models
- Stainless steel sensor construction
- Models with selectable pressure ranges
- Remote & built-in sensor models available
- Large variety of ranges

AIR & LIQUID PRESSURE SWITCHES

- High rated SPDT contacts
- Adjustable setpoint
- Adjustable differential
- Full mechanical switching
- Liquid gauge or differential

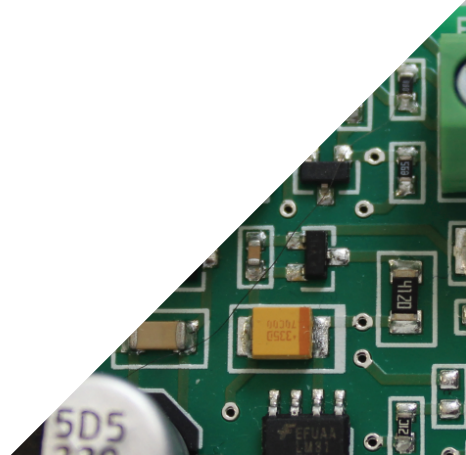# SIGNAL INTERFACES

TRANSMITTERS

- Analog to pneumatic
- Analog rescaling
- Analog signal isolation
- Analog to resistance
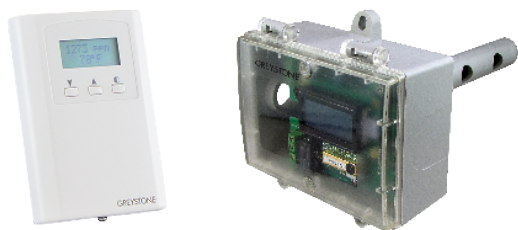- Analog to multiple relay

AIR & GAS

CARBON MONOXIDE & NITROGEN DIOXIDE

- Replaceable electrochemical sensing element
- Ranges up to 500 PPM (CO)
- Ranges up to 10 PPM (NO 2)
- Optional on board relay
- Optional BACnet® or Modbus communication

CARBON DIOXIDE

- Room, duct or outside air models
- 0-2000 or 20,000 (dual-channel) PPM CO_2 ranges
- Guaranteed 5 year calibration interval
- Models with temperature & RH
- Optional BACnet® or Modbus communication

VOC

- Room, Duct or Outside models
- 0 to 2000 ppm CO_2 equivalent output signal
- LCD to display air quality information (Room Only)
- Analog stepped output for damper control
- Linear output for logging and control
- Tri-color LED to indicate IAQ level (Room Only)
- Optional resistive temperature sensors

PARTICULATE MATTER

- Detection of environmental dusts and other particles
- Room, Duct and Outside Models
- Laser scatter method sensor
- Particulate Sizes: PM1.0, PM2.5, PM4.0 & PM10 (selectable)
- Analog, BACnet® or Modbus
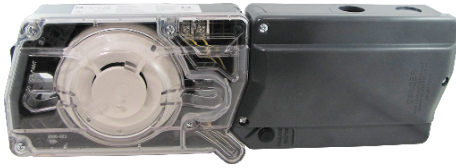
SMOKE DETECTORS

- 24 Vac/dc or 120/240 Vac operation
- Simple change-out of photoelectric sensing head
- Low flow air velocity rating from 100 to 4000 FPM
- UL, CSFM and MEA Listed
- Easy and quick mounting to round or rectangular ducts
- Built-in reset switch that is also an alarm test switch

POWER

CURRENT SWITCHES

- Solid or split-core
- Auto-ranging eliminates lost jumpers
- Self-powered and no insertion loss
- True digital switching with zero leakage
- Small compact size
- Fixed or field adjustable models
- Input / Output isolation via current transformer

CURRENT SENSORS

- Solid or split-core
- No field adjustment necessary, factory calibrated
- 0-5 Vdc, 0-10 Vdc or 4-20 mA models
- Average measurement or True RMS
- Input / Output isolation via current transformer
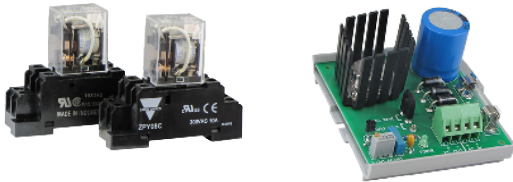- Small compact size
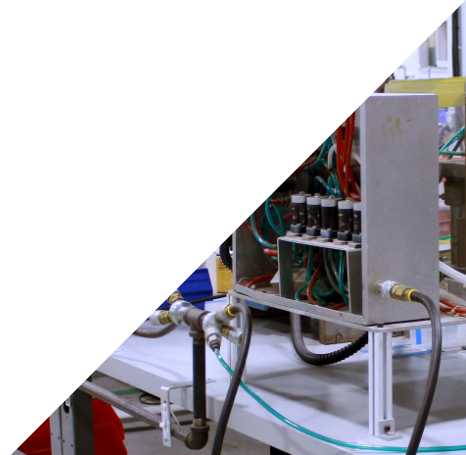
WATER DETECTION

WATER DETECTOR

- Single-point or conductivity cable
- Gold-plated sensing probes
- Monitors variety of liquids
- Fail-safe circuitry
- Form C, relay output
- Weatherproof enclosure

MISCELLANEOUS

VARIOUS PRODUCTS

- Regulated DC power supplies
- General purpose relays
- Damper-end switch
- Light level detector
- Remote LCD display

Head Office & Manufacturing

Moncton, New Brunswick, Canada

North America Sales Offices

Toronto, Ontario, Canada

Calgary, Alberta, Canada
Sherwood, Oregon, US
Avon, Indiana, US

International Sales Offices

Bangalore, India
New Delhi, India
Mumbai, India
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Peninsula Plaza, Singapore
Kuala Lumpur, Malaysia

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GREYSTONE 5 Warranty | MADE IN CANADA | ISO9001 Certified System | **RoHS** COMPLIANT | REACH COMPLIANT | CE

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