Systematic Controls is a major supplier to the industrial control market worldwide. We have a broad product line of standard control devices to meet demanding customer requirements. Our products in this diverse market provide another example of our customer-driven, problem solving capabilities.

Our professional staff is ready to help customers with products that work best for their unique applications, and quick shipment of products. Following up at any time and guaranteed applications are inherent in our legendary customer service.

Experienced sales personnel, service engineers and trained service staff are ready to trouble shoot your application in person and facilitate repairs on site if necessary.

As leaders in product design and innovation, we have implemented a Quick Ship service that, depending upon product, will guarantee shipment as quick as 24 hours. It is one more way we can save each customer time and money.

Modern safety dual diaphragm, space technology sensors, and unique ultrasonic transmitters with RS232C output signals are some of the advanced control products for the future. They are being designed and produced at Systematic Controls today. We have the products and service that deliver value to the industrial markets we serve.
**Level switches**

**Conductivity Level Switch Series 700**

**Features:**
- Compact solid state design
- Pump up or pump down internal latch
- Non-sparking low probe voltage
- Electrolysis free low AC probe current
- SS 316 sensor rods, NEMA 4X Enclosure
- Simple, low cost installation
- No electronics in probe head
- Fast delivery, low cost

**General technical data:**
- PROBE VOLTAGE: 7VAC
- PROBE CURRENT: Max. 15mA
- PROBE SENSITIVITY: 0-60,000 ohms (steam condensate)
- PROBE TO CONTROL BOX DISTANCE: 1000 max
- RELAY CONTACTS: DPDT 2Amp. @ 115VAC
- POWER SOURCE: 105-130VAC 60Hz. 1.0 VA
- CONTROL BOX ENCLOSURE: NEMA 4X
- WETTED PARTS PROBE: SS316, PVC (optional Teflon)

**RF “Radiocon” Level Switch**

**Features:**
- Not affected by material build-up on probe
- Rugged construction of probe and control box
- Effective with almost every kind of liquid or powder
- Stainless steel 316 probe (optional Teflon liner)
- Up to 1000' cable length, probe to control box
- Single or dual probe control box
- No maintenance, low cost, fast delivery

**General technical data:**
- PROBE HEAD HOUSING: Ex-proof, NEMA 4,7,9
- CONTROL UNIT HOUSING: NEMA 4X (optional: Ex-proof)
- POWER SOURCE: 115/220 VAC, 24VDC, 2VA
- CONTROL UNIT OUTPUT: On/Off, DPDT, 2Amp. @ 115VAC
- TIME DELAY OUTPUT: 1 sec. to 2 Hrs. adjustable in field
- MAX. TEMP. (PROCESS): 250 deg.F, @ 100 psi
- PROCESS CONNECTION: 3/4'' NPT, SS316 & Teflon wetted parts

*Series 2002 RF level switch with “SELF-TEST” feature ensures 100% performance test of all components in the system on demand!*
Level & Pressure Transmitters

DP Type, Strain Gauge Level & Pressure Transmitters Series 300

Features:
- High accuracy & stability
- Dual diaphragm isolating unit (safest in the industry)
- Standard stainless steel diaphragm unit, Teflon coated
- Dual temp. compensation (in sensor and in housing)
- Ease of installation and service
- Wide range selection (30" vacuum to 5000 psig)
- Modern 2-wire system, 4-20mA isolated output signal
- Simple field calibration
- Low cost, fast delivery

Super Sensor:
Derived from aero-space technologies, with specifications similar to MIL standards, and the accuracy of 0.2%, @ 0.1% repeatability

Extended diaphragm level transmitter for measuring level in tanks having very viscous materials and the tendency to clog standard transmitters with recessed ports

Series 300 Transmitters
Safest in the Industry Today!

The dual diaphragm capsule consist of 2-SS316 diaphragms welded on the circumference, and then Teflon coated. The capsule is filled with silicone oil. This unit will prevent process liquid in the tank from escaping, thus preventing serious damage to the plant and the environment. (avail. for std.transmitters only)

Diaphragm Capsule

General technical data:

- ENCLOSURE: Ex-proof, NEMA 4, 7, 9
- OPERATING TEMP.: -50 to +200 deg. F (optional 600F with capillary tube)
- TEMP. COMPENSATION RANGE: -40 to +180 deg. F (probe and housing)
- OPERATING HUMIDITY RANGE: 0-100% RH
- PRESSURE RANGES: 0-1 psig to 0-5000 psig (large selection)
- OVER PRESSURE RATING: 3 times rated range
- ZERO ELEVATION & SUPPRESSION: approx. 25% of range
- OUTPUT SIGNAL: 4-20mA
- SUPPLY VOLTAGE: 18-30VDC, 2-wire system
- MAX. LOOP RESISTANCE: 1000 ohms
- ACCURACY: 0.25% of calibrated span
- REPEATABILITY: 0.1% FSD
- PROCESS CONNECTION: 1" NPT, Flange 1", 2", 3" 4" ANSI 150# RF
- WETTED PARTS: SS316, monel, Hastelloy C, Teflon
RF Probe Type Level Transmitter Series 400

Features:
- Minimum effect of material build-up on probe. Liquids only
- Isolated 4-20 mA output signal
- Sensing probe to 40' long
- Automatic Temp. Compensation
- Simple, Low cost installation
- Non-Interacting zero & span adjustment
- Self-Contained Ex-Proof Enclosure
- Low cost, fast delivery

General technical data:
- ENCLOSURE: Ex-proof, NEMA 4, 7, 9
- MEASURING RANGE: 6" to 40'
- MAX. TEMP. SENSOR: 250 deg F @ 100 psig
- MAX. TEMP. ELECTRONICS: -40 to 150 deg F
- OUTPUT SIGNAL: 4-20 mA Isolated
- SUPPLY VOLTAGE: 18-30 VDC, 2-wire system
- POWER CONSUMPTION: Approx. 0.6 VA
- MAX. LOOP RESISTANCE: 600 ohms @ 24 VDC
- REPEATABILITY: 0.1%
- LINEARITY: 0.3% of range
- PROCESS CONNECTION: 3/4" NPT (optional 2" or 3"
  flange 150# ANSI, PVC, or SS316: sanitary)
- WETTED PARTS STANDARD: SS316, Teflon

Series 800
Ultrasonic Level Transmitters

Features:
- Measurement ranges up to 30' (Optional 100')
- Non-Contact sensing for any liquids or slurries
- Microprocessor based electronics
- Programmable zero & span by BCD switches at ground level or prior to installation
- Automatic temperature compensation
- Isolated 4-20mA output (optional RS-232 Series 815 and 835)
- Self-testing
- Very narrow trans. beam (10-13 deg.)
- Memory protection following power loss
- Low cost, fast delivery

Series 825
Self-contained

General technical data:
- RANGE: Series 825-25', Series 835 - 30' (optional to 100')
- ACCURACY: 0.3% of span
- POWER: Standard 115 VAC (optional 230 VAC, 24 VDC) 5 VA
- OUTPUT SIGNAL: 4-20 mA into 600 ohms (optional RS 232C)
- ENCLOSURE: Series 825 - Ex-proof NEMA 4, 7, 9
  Series 835 - NEMA 4X (optional Ex-proof, NEMA 4, 7, 9)
- SENSOR MATERIAL: PVC, Teflon, Kynar, 316 Stainless
- PROCESS CONNECTION: Series 825- 2" NPT (optional 3" flange)
  Series 835 - std. 3" flange (optional 3/4" NPT)
- TEMP. RANGE: -20 to 180 deg. F
- SENSOR BLIND ZONE: 18", 12" for 825, 815 (no signal reading in this zone)
Temperature Transmitters & Special Devices

Temp. Transmitter
RTD Sensor, Series 500

Features:
- Simple, reliable electronic circuitry
- Most compact circuit board available
- Modern 2-wire system 18-30 VDC
- Isolated 4-20mA output signal
- Standard RTD input type PT100
- Fast delivery
- Very competitive price

General Technical Data:
- RTD INPUT: 3-wire, platinum PT100 DIN stand
- OUTPUT: 4-20mA
- MINIMUM SPAN: 50 deg. F
- MAXIMUM SPAN: 1200 deg. F
- POWER SUPPLY: 18-30VDC approx. 0.6VA
- MAXIMUM LOOP RESISTANCE: 650 ohms
- ACCURACY: 0.3% FSD
- REPEATABILITY: 0.1%
- OPERATING TEMP. (BOARD): -40 to 150 deg. F
- ENCLOSURE: Ex-proof NEMA 4,7,9
- ACCESSORIES: RTD sensor (optional): Thermowell

“Quad-Control”
Transducer Series 444

Features:
- Four user adjustable set points over the entire range of 4-20mA
- Output per set point: SPDT, 2Amp.
- Set point position indicated by LED
- Adj. deadband 1-20% of span
- Optional: programmable 2-middle set points for differential control mode (pump up/pump down)
- Low cost, fast delivery

Voice Alarm System Annunciator
Series 9000

Features:
- Speaks alarm condition, no confusion with bells or sirens
- Standard annunciator circuitry
- Modern digital voice storage, no tapes to wear out
- Unlimited number of messages
- Can be integrated into existing plant PA system
- Custom voice programming – any message up to 20 seconds
- Price competitive to old-fashioned annunciators
Actuated Valve Specialists
Division of Systematic Controls Corporation

Valve Automation

Features:
- Three way diverting or mixing flow arrangements
- Available in bronze, stainless, or PVC material
- Available with pneumatic, electric, or hydraulic actuators
- Optional Equipment: Solenoids, positioners, limit switches, speed controls, and mufflers
- Available in 110 VAC, 24 VDC, 12 VAC, 220 VAC
- Fast delivery, low cost

Features:
- Electric actuation of quarter turn valves
- Voltages available 110 VAC, 220 VAC, 24 VDC, 12 VDC
- Available as on/off or modulating control
- Electric fail safe design

Features:
- Compact pneumatically automated valves
- Available materials: Bronze, Carbon, Stainless, PVC, Kynar, Fiberglass, Alloy 20
- Optional Equipment: Positioners 3-15 PSI; Electropneumatic positioners, 4-20mA; Solenoids, and limit switches
- Sizes from 1/4" to 10", other sizes P.O.A.

Features:
- Fully automated on/off control valve, 90 degree rotation
- Accessories: Positioners, limit switches, solenoids
- Built to customer’s specifications
- Fail safe options: open, close, or last position
- Actuator: Double acting or spring return
- Valves: Variety of materials, bodies, connections, sizes
A Short Visit to Our Plant

Training Center

The picture on the left shows part of our complete, sophisticated and modern training facility located in our main production area. Visitors can simulate live applications under different conditions, and learn fast about our products. Contact us for seminar dates or a visit.

Test Area

The picture on the left shows the pressure calibration station. Mechanical and digital electronic test instruments have an accuracy of 0.1% FSD and are traceable to NIST standards in calibration accuracy.

Other Products Supplied by Systematic Controls

Let's plug you into the world of process control, electronics, and automation. We have what it takes to do it all.

Systematic Controls Corporation

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FAX: (770) 499-7483

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