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Condition Sensors and Switches

Designed to Produce High-Quality Results
in a Variety of Rugged Environments

Allen-Bradley



LISTEN.
THINK.
SOLVE.®

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Rockwell Automation

Condition Sensing

Rockwell Automation offers an impressive line of Allen-Bradley® condition sensing products to meet your application needs. With models capable of detecting pressure, temperature, flow and level, Allen-Bradley solid-state and electromechanical condition sensing switches offer exceptional control for automatic operation of machines and processes.



	Product	Function
	836P Solid-State Pressure Sensor Display and Non-display models	Monitors pressure of liquid, gas, vapor and dust.
	837T Solid-State Temperature Sensor Display and Non-display models	Measures the temperature in liquids, gases and vapors.
	839E Solid-State Flow Sensor	Measures the liquid media flow rate.
	840E Solid-State Level Switch	Monitors liquid leveling in tanks, containers and pipelines.

Solid-State Condition Sensors

Rockwell Automation knows Condition Sensing controls are vital components in today's control systems. High-accuracy, new technology, and rigid standards are combined to manufacture these reliable world-class products.

Pressure

Solid-State 836P

Allen-Bradley 836P pressure sensors are capable of measuring pressure of liquid, gas, vapor and dust. The product family consists of different pressure ranges from -1...689 bar (-14.5...10,000 psi), offering both discrete and analog outputs. We also offer a large number of process connections.



Display

- Compact design
- Wide selection of process connections
- 316L sensing element
- -1...551 bar (-14.5...8,000 psi)
- Rotatable housing and head
- Rotate display 180° via firmware
- Embedded IO-Link 1.1 communications protocol



Non-display

- Miniature housing – smallest footprint in the market
- -1...689 bar (-30 in. Hg to 10,000 psi)
- 4...20 mA

	Pressure Ranges (bar (psi))	Electrical Outputs	Enclosure Rating	Process Connections
836P Display	Gauge: 0...551 (0...8,000) Absolute: 0...20 (0...300) Vacuum: -1...20 (-14.5...300)	2PNP, 1PNP +4...20 mA	IP65 and IP67	**Male** NPT 1/4", BSPP G1/4", G1/2"B, SAE 7/16"-20UNF **Female** NPT 1/4", BSPP G1/4", SAE 7/16"-20UNF **Sanitary*** 1 1/2" Tri-Clamp 2" Tri-Clamp
836P Non-display	Gauge: 0...689 (0...10,000) Absolute: 0...20 (0...300) Vacuum: -1...20 (-30 in. Hg...300)	4...20 mA	IP67	**Male** NPT 1/4", SAE 7/16" - 70UNF BSPP G1/4" **Female** NPT 1/4", BSPP G1/4", G1/2"B

* Available Summer 2016.







Solid-State Condition Sensors

Flow

Solid-State 839E

Allen-Bradley 839E flow sensors monitor and display liquid media flow rate in the range from 0.03 to 3 m/s (0.1 to 9.84 ft/s). Available with two different probe insertion lengths, this sensor is capable of measuring both flow and temperature.



- Rugged, corrosion-resistant 316L stainless steel housing with IP66 enclosure rating
- Flow rates of liquid media (calorimetric measuring principle) in the range from 0.03...3 m/s (0.1...9.84 ft/s)
- Four-digit 14-segment digital display
- Dual N.O./N.C. programmable PNP outputs or 4...20 mA analog output with single PNP output
- 316L stainless steel probe
- Selectable units of measurement: °C, °F, or %

	Probe Lengths (mm (in.))	Electrical Outputs	Enclosure Rating	Process Connections
839E	30 (1.18), 100 (3.94)	2PNP,1PNP +4...20 mA	IP66	**Male** NPT 1/4", NPT 1/2" BSPP G1/4", BSPP G1/2"

Level

Solid-State 840E

Allen-Bradley 840E level switches are microprocessor based and designed to withstand harsh industrial conditions and wash-down applications such as liquid level monitoring in tanks, containers and pipelines. Available in both AC and DC versions, these switches are not affected by foam and are immune to vibration and build-up.



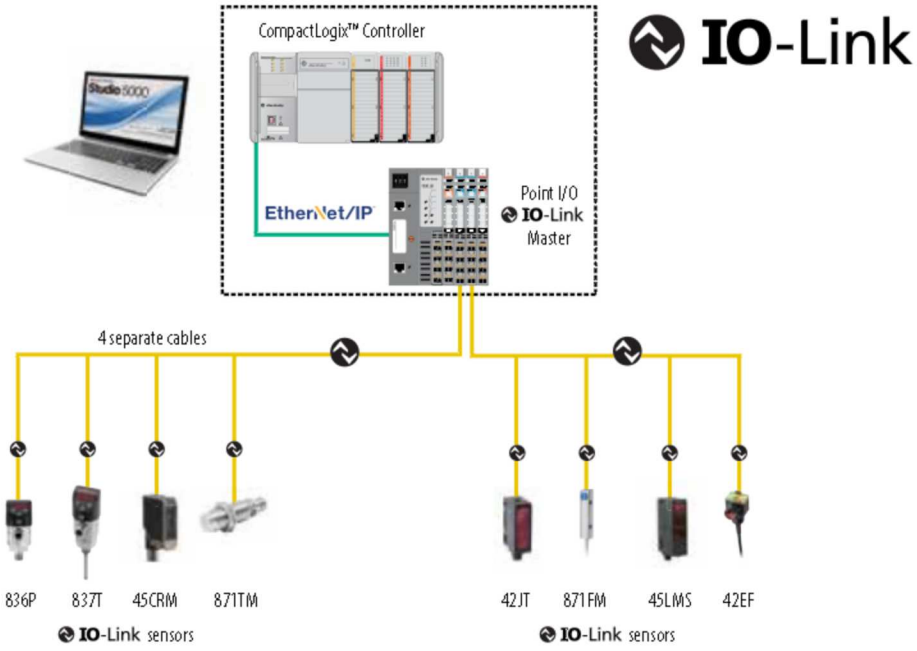
- Rugged, corrosion-resistant 316L stainless steel housing with IP66/67 rating for DC type and IP65 for AC type enclosure
- DC PNP version with M12 connector
- AC version with NPT 1/2" valve connector
- 316L stainless steel sensing element
- On-site control via high-visibility status LED
- Discrete NO/NC level switch is based on ultrasonic vibrating fork technology
- Easy-to-install

	Power Supply	Electrical Outputs	Enclosure Rating	Process Connections
Solid State 840E	DC-PNP with M12 connector AC with NPT 1/2" valve connector"	NO/NC	IP65 (AC version) IP66/67 (DC version)	**Male** NPT 1/2" NPT 3/4" BSPP G1/2"



Our Integrated Smart Sensor Solution

When it comes to linking plant-floor devices to The Connected Enterprise, Rockwell Automation offers a wide range of smart sensors that deliver information, advanced functionality and flexibility. All this while increasing efficiency machine- and plant-wide. These Allen-Bradley sensors use IO-Link technology for visibility of field devices through our Integrated Architecture.



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