

Upgrading your Plant Instrumentation and Field Instruments?

Concerned about costs, complexity and reliability?

When upgrading plant instrumentation and control systems, UE's innovative One Series enables customers to improve the reliability of discrete field inputs, replacing mechanical pressure and temperature switches while retaining existing wiring and control schemes. With solid-state reliability, self-diagnostics, and minimal power requirements, the One Series is the cost-effective solution to increased reliability for critical on/off alarm and shutdown protection.

ONE
SERIES



UL US Ex CE ATEX APPROVED

Why the One Series is the best choice for plant upgrades:

- Self-diagnostics and continuous health status, eliminating the "blind" mechanical switch issue
- 0.1% repeatability
- Deadband adjustment 0-100% of range for precise pump staging
- Models operate on low power derived from the PLC or DCS discrete input and just two wires
- Nuisance trip filtering
- Set and check in place via digital display, protected from unauthorized access, eliminating trips to the instrument shop
- All solid-state extended life and reliability
- Meets Zone 2/Div 2 cUL and ATEX hazardous location approvals
- Pressure ranges from 0 to 4500 psi with welded 316L st/st sensors
- Temperature ranges from -300 to 1,000°F with local and remote sensor options

Lower Installed Cost vs Transmitters used for Switch Functions

Lower Programming & DCS Cost
One Series \$375 list price
Simplified Control Scheme
Direct-Acting with Faster Response Time

Contact United Electric for the latest information on the One Series electronic pressure and temperature switches.

Improve reliability. Contain Costs.



UNITED ELECTRIC CONTROLS

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Solid State Pressure Switch...

Drop-in Replacement for Mechanical Switches

UE's innovative One Series enables customers to improve the reliability of discrete field inputs, replacing mechanical pressure and temperature switches while retaining existing wiring and control schemes operating on just two wires. The digital display eliminates a pressure gauge as well!

Features:

- Digital display for the process variable, settings and switch status
- Independent and 100% adjustable set point and on/off deadband
- All solid-state; no moving parts; unaffected by vibration
- Pressure ranges from inches of water column up to 4500 PSI
- All 316 stainless wetted parts; piezo resistive strain gage sensor
- Conforms to JIC form and function
- Enclosure Type 4X
- Optional Mounting Plate Retrofit Available

Power and Switch Capacity:

- Model 2W2D; 12-30 VDC, 2-Wire discrete input powered; no other wiring required, 40 mA switch output
- Model 2W3A; 90-130 VAC/VDC, 2-Wire discrete input; no other wiring required, 100 mA switch output
- Model 4W3A; 90-130 VAC, external power supply, 10 A switch output

Typical Applications:

- Precise pump on/off control & staging
- Hydraulic and Lube oil pressure monitoring
- Hydraulic press control
- Compressor and protection control
- Pneumatic and Gas pressure sensing
- Machine Tool protection
- High pressure coolant monitoring
- Hydraulic ram control
- High or Low pressure alarm
- Fluid level and pressure control
- Factory automation switching
- Equipment monitoring and protection



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