



Upgrading your Plant Instrumentation and Field Instruments?

Concerned about costs, safety and reliability?

When upgrading plant instrumentation, UE's innovative One Series improves the reliability of discrete field inputs, replacing mechanical pressure and temperature switches while retaining existing wiring and control schemes. With digital electronic reliability, configurable self-diagnostics, and minimal power requirements, the One Series provides the best choice for critical on/off alarm and shutdown protection.

If replacing mechanical temperature and pressure switches as part of a plant upgrade project, choose a product that was specifically designed for the task. The One Series hybrid transmitter-switch is available in 2-wire discrete and loop-powered versions, obtaining power directly from the PLC or DCS input that it is attached to. No additional wiring is required!

Select From:

- **Model 1XSWLL** – obtains power and provides a switch signal to any PLC or DCS 7.8 – 50.0 VDC input.
- **Model 1XSWHL** – obtains power and provides a switch signal to any PLC or DCS 70 – 240 VAC input. **Uses the same 2 wires from the mechanical switch it is replacing.**
- **Model 1XTXSW** – this loop-powered HART® transmitter provides two independent solid-state relays and field-scalable 4-20 mA analog output. **Replace a switch, gauge and transmitter.**
- **Model 1XSWHH** – 240 VAC @ 10 Amperes solid-state relay capable of switching contactor loads. **Programmable set point and deadband provides accurate, repeatable and high capacity switching.**

Why the One Series is the Best Choice for Plant Upgrades:

- Self-diagnostics and health status output, eliminating the "blind" mechanical switch issue
- Deadband adjustment 0-100% of range for precise single loop control
- No moving parts for extended life and reliability
- Meets Zones 0 & 1/Div. 1 and Zone 2/Div. 2 cULus, ATEX, IECEx hazardous location requirements
- Pressure ranges from -14.7 to 6,000 psig using 316L SS piezo-resistive sensors
- Temperature ranges from -300 to 1,000°F with local and remote sensor options



Model 1XSWLL shown with Dual Seal and Differential Pressure Sensor



About 1/2 the Installed Cost of a Process Transmitter

Installed Cost Analysis		
One Series vs. Process Transmitter	One Series	Process Transmitter
Local Display	Yes	Optional
Locally Programmable	Yes	No
Switching Capability	Yes	No
Trip Counter	Yes	No
Trip Delay	Yes	No
Plug Port Detection	Yes	No
MAX/MIN Memory	Yes	No
Utilize Existing Plant Wiring	Yes	No
PLC Reprogramming Required	No	Yes
Instrument Response Time	<100 mS	>300 mS
Total Cost	X	2X

Contact United Electric for the latest information on the One Series electronic pressure and temperature switches. Improve safety reliability. Contain Costs.

