

ISO-Channel™ Technology

ISO-Channel™ vastly increases reliability by implementing a 24-bit A/D converter per channel on each of many channels, all operating in parallel. Older system designs with relay front ends are prone to system failure through "sticking channels" or magnetic field influence. The all solid-state ISO-Channel™ provides digital transfer of valuable sensor data with optical or transformer isolation.

The result is that accuracy is preserved for all sensor inputs. This is especially useful when conditions change in the electrical environmental due to motor current surges, electromagnetic radiation, or noisy industrial equipment turning on/off.

Common mode voltage range up to $\pm 500\text{V}$ allows a combination of separate channels to extend the overall input range. This vastly increases flexibility of the measurement system.

To obtain ultra-accurate, most flexible, precision measurement of temperature, voltage, resistance, and vibration our MEASURpoint instruments, DT8837, DT8824, and DT9824 use ISO-Channel™ technology.

