

RFL ANTI-ISLANDING SOLUTION

ISLANDING DETECTION USING PHASE COMPARISON

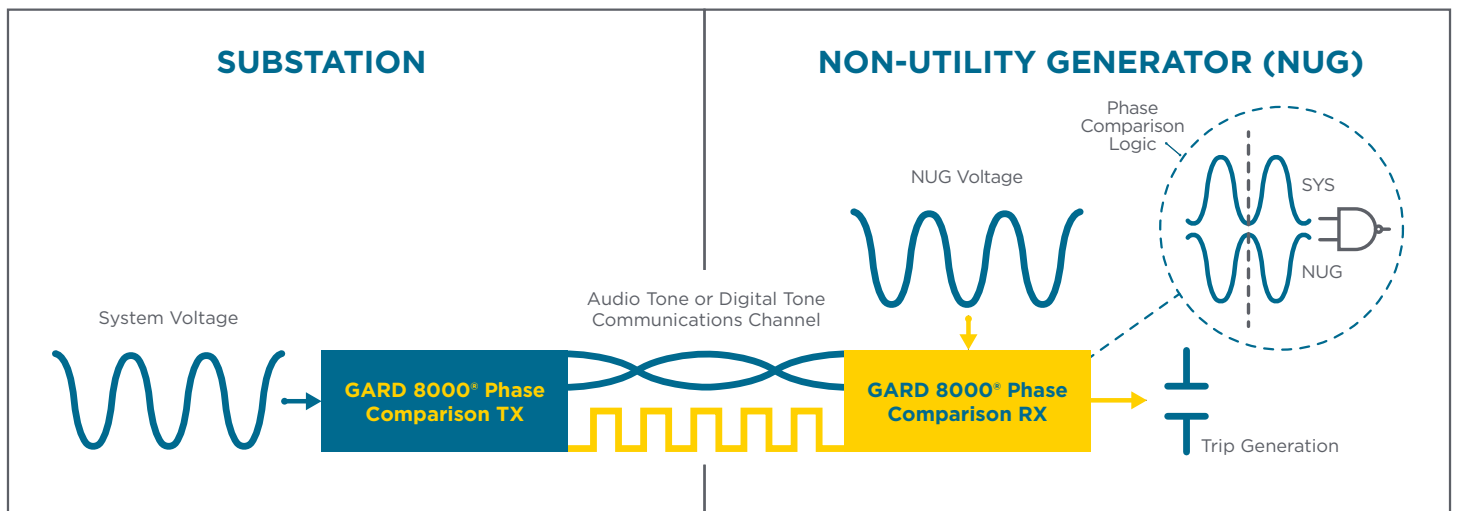
When an island occurs the Generator frequency will not equal System frequency and the phase angles will begin to drift. When a set phase angle difference (typically 90 degrees) is detected by the GARD 8000® Phase Comparison Receiver, generation is tripped.

BENEFITS

- Requires only one communications link
- Requires no complex DTT logic as a result of inline reclosers, switches or multi-line connections
- Accurately and quickly detects islanding conditions
- Eliminates Non-Detection Zone (NDZ) compared to local active and passive methods
- Allows under-frequency protection to be less sensitive reducing false tripping during system disturbances

CHANNELS SUPPORTED

- Digital (C37.94, T1/E1, RS449, V.35, X.21, G.703)
- Audio Tone (2-wire, 4-wire)



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