



# MICOM 5TH GENERATION UPGRADE

## WHY UPGRADE?

### 1. Advanced Communications

The latest P44 (distance) and P54 (line differential) 5th generation versions offer automation systems integration with a wide range of supported concurrent protocols, allowing relays to fit into digital and legacy substations simultaneously.

### 2. Stronger Cybersecurity

The 5th generation relays meet NERC/CIP requirements and support cybersecurity best practices. Cybersentry™ enables role-based access control with remote authentication (RADIUS) support, providing increased peace of mind in critical applications.

### 3. Ease of Use

The advanced 5th generation ensures a minimized learning curve for setup, commissioning, and operations. With extensive data logging capabilities, the P44 and P54 models provide greater visibility and enable faster, more straightforward troubleshooting.

### 4. Improved Control

The 5th generation offers a full-color graphical HMI as standard. Switchgear control, setting, event interrogation, and consulting measurements via the front panel are all enhanced with a generational leap. Even with the ten-fold increase in processing and a greater complement of LEDs for annunciation, the burden on

the substation battery remains identical to previous MiCOM relays. When you retrofit the relay, GE does not require you to upgrade any other hardware/plant.

### 5. Quality

The 5th generation offers robust hardware, with standard harsh environment coating that enables long operational life. The relays are built in ISO/IEC 27001-certified GE facilities, ensuring information is properly secured and protected.

## UPGRADING MADE EASY

Easy to install, the 5th generation fits the same form factor and mounting requirements as prior MiCOM models. There is minimal, if any, impact to wiring, eliminating the need to update system and wiring diagrams. Terminals detach from the predecessor and fit exactly onto the 5th generation, allowing for quick retrofitting - the relay boots-up in less than 10 seconds!

## MODELS COVERED

P441, P442, P443, P444, P445, P446 to new P44 5th generation  
P541, P542, P543, P544, P545, P546 to new P54 5th generation  
P841, P141, P142, P143, P145 to new P841 5th generation

For more information, visit  
**[gevernova.com/grid-solutions](https://www.gevernova.com/grid-solutions)**