



January 15, 2004

**PRODUCT SOFTWARE BULLETIN    PSB-DPU827**

**PURPOSE OF NOTIFICATION**

Inform customers of the new DPU2000R CPU firmware version V5.41 and new interface software revision WinECP V4.35 for Fast-Surface Mount Technology (SMT) DPU2000R units Catalog Series 587 and 687. The nameplate Serial Number having suffix "F" identifies fast-SMT units. The enhancements developed increase flexibility of application, improve reliability and enhance security of operation.

**WHAT IS AFFECTED?            ■ PROTECTION            ■ AUTOMATION**

The new software is available on the web at [www.abb.com/substationautomation](http://www.abb.com/substationautomation). Click on Distribution Products, DPU2000R and then Configuration Software. This software is utilized for DPU2000R units with Fast-Surface Mount Technology (SMT) DPU2000R units Catalog Series 587 and 687. The nameplate Serial Number having suffix "F" identifies fast-SMT units.

**FIRMWARE / SOFTWARE UPGRADE RECOMMENDATION**

- Perform upgrade immediately. (Mis-operation/No Operation)
- Perform upgrade at earliest convenience. (Application issue)
- Enhancement

**Note:** It is always recommended that the customer upgrade their interface software to the most recent version available which in this case is WinECP V4.35. This is available via Internet at [www.abb.com/substationautomation](http://www.abb.com/substationautomation), select DPU2000R from Distribution Products and then Configuration Software.

**SOFTWARE CHANGES**

*New Features / Functionality Added*

1. Added new logic for **ease of use** to change from one settings group to another.
2. **Expanded Operator Control Interface (OCI) functionality** in allowing control pushbuttons to be individually configured as maintained or momentary.
3. **Increased Programmable Logic** by adding programmable (barrel) shifters for use in testing applications.
4. **Improved flexibility of operation** by making the Multiple Device Trip (MDT) Mode and Reset Mode Configuration settings independent of one another. This makes it easier for customers to apply the DPU2000R in dual breaker applications.
5. **Added definitive** indication of active settings with dedicated logical output for each settings group.
6. **Improved reliability** of phase involvement for ground faults by lighting phase targets whenever ground fault current exceeds phase any overcurrent pickup setting.
7. **Increased OCI flexibility** of Breaker Control pushbuttons by allowing customer to disable breaker status LED's as well as the pushbuttons themselves.
8. **Expanded DPU2000R Automation capabilities** with added option of Modbus over TCP/IP (Ethernet).
9. **Increased DNP3.0 points list** to include applicable points for above-mentioned features.
10. **Improved reliability** of WinECP with corrections to printing Harmonic Records, communications and settings downloads with DPU and TPU devices and display of Force Logical Inputs (FLI's) User Names.

**SUMMARY**

1. Improved ease of use with added programmable logic, increased OCI functionality and flexibility with expanded control pushbutton and breaker LED control, improved reliability of ground fault phase involvement and expanded automation capabilities with selectable Modbus over TCP/IP (Ethernet).
2. Improved quality of interface software WinECP.
3. WinECP interface software V4.35 is compatible with all DPU2000R units Catalog Series 587 and 687. WinECP V4.35 is available via Internet at [www.abb.com/substationautomation](http://www.abb.com/substationautomation), select DPU2000R from Distribution Products and then Configuration Software.

**SOFTWARE TOOL COMPATIBILITY**

Interface Software: WinECP V4.35

DFR Viewing Software: WaveWin VB.9 (Install using WinECP in Configuration Software.)

Programmable Curves Software: CurveGen: V1.0

Flash Programming Software: WinFPI V1.03, Build 6