



GE VERNOVA

MiCOM P40 Agile

5th Generation P64

Version History

Hardware Version: Q

Firmware Version: AB

Publication Reference: P64-VH-EN-1



1 HARDWARE AND SOFTWARE VERSION HISTORY

S/W Version Major	S/W Version Minor	H/W Version	Original Date of Issue	Description of Changes	S1 Compatibility	Technical Documentation
AB	-	Q	August 2024	First release of MiCOM 5th Generation transformer protection. Relay models: P642/3/5 are released based on software 91. The main changes in this new hardware and software release are as follows: ▪ A 10x performance increase in processing power over the previous Generation (4th Gen) ▪ Colour graphical HMI available as standard, and with native USB support. It includes 1 configurable page, for SLD, measurements and status signals ▪ Any model can be ordered in the 3 size cases: 40TE (W 203.2 mm or 8”), 60TE (W 304.8 mm or 12”) or 80TE (W 406.4 mm or 16”), with a variation in the number of I/O ▪ PRP, HSR and RSTP supported in the same order option ▪ CyberSentry IEC 62351-8 ▪ 5000 Events, 100 Faults, 1050s Oscillography and 128 Digital Signals ▪ Compliance to IEC 61850 Edition 2.1 ▪ Support for IEC 61850 Substitution - data points for status and measurement can be substituted ▪ Time Synchronization modelled in new LN LTIM/LTMS ▪ Support for Alarm Handling new LN CALH ▪ Ethernet port link status via new LN LCCH and new DDBs ▪ Top-down engineering - configuration of P40 including GOOSE from SCD file ▪ Configurable RCB name and GCB name ▪ Multi-level control, new DO MltLev - select local or remote for control. To comply to local and remote requirements ▪ Secure Event Logging aligned to IEC 62351-14 - separate audit log for security operations and Syslog updated to align with IEC 62351-14 ▪ Implementation of secure SSH (Secure Shell) communication to the relay from S1 Agile for configuration over Ethernet ▪ New Ethernet board - 1-2 Station Bus ports + Engineering port (CORTEC Hardware Option U/V/W/Y) ▪ Increased execution speed for REF. Trip time improved from 45 to 30ms at 2xIs	MiCOM S1 Agile v3.0.1 or later	P64-TM-EN-1

2 SOFTWARE VERSION COMPATIBILITY

IED S/W Version		Setting File Version	Menu Text File Version*8	PSL File Version
AB		AB	AB	AB

Notes:

- *1: Compatible except for Disturbance recorder digital channel selection
- *2: Additional functionality added such that setting files from earlier software versions will need additional settings to be made
- *3: Compatible except for Disturbance recorder digital channel selection & settings for additional functionality will be missing
- *4: Compatible except for the Disturbance recorder digital channel selection and the distance settings
- *5: Compatible except for Disturbance recorder digital channel selection & the setting file contains a large number of Distance setting which will each produce an error on download
- *6: Additional DDBs were added such that PSL files from earlier software versions will not be able to access them
- *7: Additional DDB for the Distance protection will not be included
- *8: Menu text remains compatible within each software version but is NOT compatible across different versions



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