µFLO^{G5} (microFLO^{G5})
Basic flow computer

The microFLO product is one of our most popular products and will continue to be for the foreseeable future.

Measurement made easy

Overview

The engine card has been eliminated on the new design and a single electronics board is utilized. The electronics and the sensor are individually replaceable if necessary. The electronics board from a µFLO^{G5} can be installed on a sensor from a µFLO^{G4}, or a µFLO^{G5} sensor can be installed with a µFLO^{G4} electronics board. The unit looks and functions almost identically to the existing µFLO^{G4} both in outward appearance and when using PCCU interface software.

The applications have not changed; those that are in the G4 are in the G5. The OS and the Flash are different on the µFLO^{G5}. For full functionality, such as loading OS and/or Flashes, new PCCU software (32 bit loader) is required. However, basic setup and calibration of the G5 are still possible with existing PCCU software. The new µFLO^{G5} is a direct replacement for the µFLO^{G4}. The table on the following page lists the primary differences between the two models.

History

ABB remains committed to providing the best, most economically priced, easy to install, basic flow computer in the industry. Over time, updates are necessary and specific components are no longer available. We are at this point in time with the µFLO^{G4}. The electronics board on the µFLO has been updated and is designated as a µFLO^{G5}.

	μFLO^{G4}	μFLO^{G5}
Processor	Samsung S3C2410 ARM 920T	AM3358 ARM Cortex A8 processor
CPU	203 MHz	300 MHz
Memory	64 MB Programs/applications 32 MB data storage	16 GB Programs/applications/data storage 256 MB LPDDR RAM program execution
Memory backup	Lithium backup	Solid state persistent storage Lithium battery is NOT required for this function
Lithium battery	Yes	Same as G4
Lithium battery functionality	Runs real time clock and backup memory	Maintains real time clock when main power removed
Operating system	Windows CE®	Linux
Onboard comm ports	1- RS232/RS485 selectable	Same as G4
On board port: RS485 termination	Jumper on board	Software controlled; no jumpers, requires new PCCU to configure
Local Serial PCCU connection	Standard PCCU cable	Same as G4
Ethernet	10M (half duplex)	10/100 Base –T (half/full duplex)
USB host/device	Optional with appropriate hardware	Same as G4
Electronics board color	Green	Dark blue
Wiring pin outs	Phoenix connectors	Same type and locations as G4
Engine card for processor/memory	Yes	No engine card required
Support I/O - Comm port expansion	Yes	Same as G4
Configuration file compatibility	μFLO^{G4} config. files	G4 configs will work on G5 – will require new PCCU to convert the files to G5 format
Calibrate charger and battery voltage	User can calibrate if desired	User cannot calibrate – voltages are calibrated by the board manufacturer
Voltage signals shown to user	Charger, battery	Ext/Charger, battery and system (board) voltage
WINS in communications network tab	Supported in Windows CE	Not supported in Linux. This field will not be shown for μFLO^{G5}
	FTP and Telnet supported (Windows CE)	SFTP and SSH supported (Linux)
32bit Loader for loading software	Existing PCCU versions support this	New loader required to load OS, flashes, and configuration files – this will require a new version of PCCU

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