

FloBoss™ S600+ Frequently Asked Questions



FloBoss S600+ Hardware

1. Does the new FloBoss S600+ mount in the panel the same way as the FloBoss S600?

Yes, the new FloBoss S600+ mounts in the panel exactly the same way as the previous FloBoss S600.

2. How does the new FloBoss S600+ physically differ from the previous FloBoss S600?

The case (chassis), I/O modules, prover modules, and HART® modules are unchanged. The most significant difference in the FloBoss S600+ is the enhanced Central Processing Unit (CPU) module, which continues to fit in the FloBoss S600 case. The only difference in physical attributes pertains to the name; there is now a '+' symbol appended to the FloBoss S600 name.

3. What is the difference in available Inputs and Outputs with the new FloBoss S600+?

The new FloBoss S600+ provides additional communication ports:

- Second Ethernet port now provided as standard
- Increase in number of serial ports
 - RS 232 Download Port on front panel (*existing*)
 - 2 off RS 232 (*existing*)
 - 3 off RS 422/485 (*existing*)
 - 4 off RS 485 (*additional*)
 - USB port added to rear (*additional*)

4. Can I still use the optional Ethernet Module (P190) with the new FloBoss S600+ to give me two independent Ethernet ports?

No. The FloBoss S600+ CPU module now provides two independent Ethernet ports, which are full duplex and support 10 and 100MB/s. This effectively replaces the Ethernet (P190) module, leaving an additional slot in the case for more I/O.

5. Does this mean that I can have two Ethernet ports as well as a standard I/O board, prover board and a HART board in a single FloBoss S600+?

Yes. Since the enhanced CPU module now provides two Ethernet ports, you have greater flexibility with the remaining three slots in the FloBoss S600+ case. The I/O (P144) module must always occupy the first of the remaining three slots, but you can place additional I/O, HART (P188) or Prover (P154) modules.

6. The standard HART module supports 12 channels. My project requires a minimum of 16 point-to-point connections, including spare capacity for the future. Can the FloBoss S600+ satisfy this requirement?

Yes. One FloBoss S600+ can now support one or two HART modules, giving you 24 point-to-point connections or up to 50 transmitters in multi-drop mode.

7. There is a USB port on the FloBoss S600+. How can I use it?

You can currently use the USB port on the rear of the CPU module to download alarm, event, and history reports to a USB flash drive.



8. What type of battery will the FloBoss S600+ use? Will it be possible to change the battery in the field without the need to de-solder?

The battery back-up on the enhanced CPU module now uses a standard 3.4V Li battery, designed for ease of replacement. The battery can be easily unclipped and replaced without the need to solder or de-solder.

9. What is the typical battery life expectancy?

The battery life expectancy is five to seven years when the FloBoss S600+ is powered by DC supply. When DC supply power is not connected and the battery is installed, the life expectancy is 18 months.

10. Are there any hardware features on the existing FloBoss S600 platform that will not be available on the new FloBoss S600+ machines?

The download port on the rear side of the FloBoss S600 has been removed, but the download port on the front panel remains. An expansion port on the back of the FloBoss S600 (which supported remote I/O) has also been removed.

FloBoss S600+ Configuration

1. Will configurations that currently run on my FloBoss S600 machines also run on the new FloBoss S600+?

Yes. The FloBoss Config600 configuration tool has been updated to enable the FloBoss S600+ to use existing configurations, provided you built them with Config version 1v4 or later. To use configurations built with earlier versions (1.1, 1.2 or 1.3), consult with Remote Automation Solutions Technical Support.

To take full advantage of some of the new features the FloBoss S600+ offers, you may need to edit existing configurations.

2. What software tools exist for configuration and access to the new FloBoss S600+? Is this different than the current FloBoss S600 software suite?

The FloBoss Config600 tools function the same as before. One benefit of the FloBoss S600+ is the download time for configurations is now approximately 10 times faster.

3. Our engineers have participated in the FloBoss Config600 Pro training course, and all have licenses. Will they need additional training to work with the FloBoss S600+?

No. Your engineers can work on the FloBoss S600+ without further training, but a new version of the FloBoss Config600 configuration tool and the associated license will be required.

4. Are LogiCalcs still available for use in the new FloBoss S600+?

Yes. Your use of LogiCalcs remains unchanged, although in the FloBoss S600+ they typically run five times faster.

FloBoss S600 Interfaces

1. Does the Operator Interface via the front display panel change on the FloBoss S600+? Is the change transparent, or is training required?

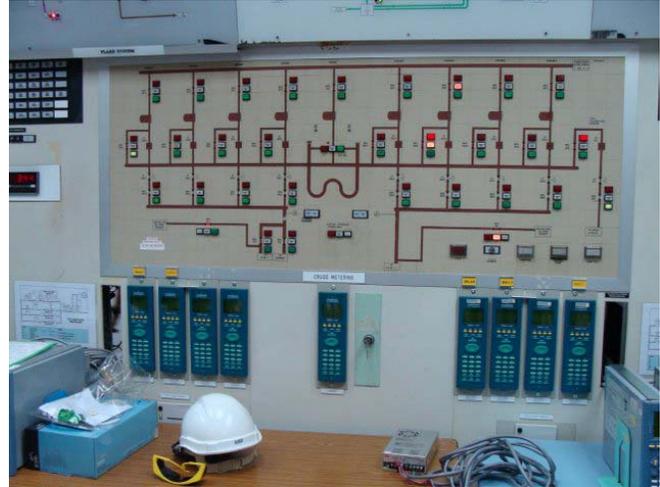
With the exception of a cosmetic change, the front display panel and operator interface work as before. No re-training is required.

2. Will the Ethernet ports on the FloBoss S600+ remain as a Modbus over Ethernet interface as per the current FloBoss S600 machine?

The first Ethernet port on the FloBoss S600+ generally remains unchanged. A second Ethernet port (previously available only on an option module) is now standard on the FloBoss S600+. The supported protocols will remain Modbus/TCP and Modbus over Ethernet. Previously, both ports were limited to 10MB/s and half duplex. Now, both ports have the option of running at 100MB/s in full duplex mode.

3. The current FloBoss S600 version stores the required information points in a Modbus register map. Does this methodology change on the FloBoss S600+, and are all information points still available via Modbus communications?

The Modbus register map remains the same.



4. If the Modbus structure remains, does the previously-developed Modbus polling for the existing FloBoss S600 remain the same, or do we need to define a new software interface for the FloBoss S600+?

The existing interface remains compatible with the FloBoss S600+. The available baud rates have increased from between 300 and 38,400 on the existing FloBoss S600 to between 2,400 and 57,600 on the new FloBoss S600+.

5. Does the web interface to the existing FloBoss S600 change on the FloBoss S600+?

The web server interface on the FloBoss S600+ is compatible with the existing FloBoss S600. We have enhanced the interface to improve security and provide additional diagnostic capabilities.

Upgrading from the Original FloBoss S600 to the New FloBoss S600+

1. We have a large installed base of FloBoss S600s, but we want to upgrade to the FloBoss S600+. Can we do this without replacing the complete machine?

Yes. The upgrade process is relatively straightforward. First, save the existing FloBoss S600 configuration. Then disconnect and remove the original CPU module from the case. Next, you insert the enhanced CPU module, and then download the original configuration file to the FloBoss S600+.

The new FloBoss S600+ now operates in the exact same way as the previous FloBoss S600s, and the new features of the FloBoss S600+ are also available.

For further details on the FloBoss S600+ upgrade procedure consult the "FloBoss S600+ Field Upgrade Guide" available on the Remote Automation Solutions web site at: <http://www2.emersonprocess.com/en-US/brands/FloBoss/gasflowcomputers/s600/Pages/S600.aspx>

2. We are planning to upgrade our FloBoss S600s to the FloBoss S600+, we plan on buying the required upgrade kits but will we need a new version of Config600?

To upgrade from a FloBoss S600 to the FloBoss S600+, if none of the new features/functionality is required, then you can still use the original version of Config 600 (this must be version 1.4d or later).

While this can be carried out with Config600 version IPL600, the upload/download tool, it is recommended that this is carried out with a Config600 lite license or higher (Config600 Lite+ or Config600 Pro).

If any the new features of the FloBoss S600+ are required, then the configuration must be updated with Config600 Pro version 3.xx or later and downloaded into the upgraded S600+ flow computer.

As with all firmware or hardware changes it is recommended that the upgraded FloBoss S600+ flow computer is tested before being put into service.

3. I have a Pro level license for Config600 v2.7, but I now want to use the new features provided by the FloBoss S600+. How do I get a new version of Config600 that will allow me to use the new features?

Please download the latest version from Supportnet® and then then apply for a new license using the online instructions from the tool. If you already have a valid license for a particular version (such as Config lite), you will be able to get a similar license for the latest version.

If you do not have a valid license yet, you will need to contact your local sales representative.

If you would like further information on the FloBoss S600+ flow computer, or if you need assistance locating your local sales representative, please visit us at www.EmersonProcess.com/Remote for further details.



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