

Topcon X25 and X35 Consoles Get ISOBUS Certification



Improving workflow between machines, implements and in-cab devices is key to the Topcon Agriculture vision.

Plug-and-play compatibility is key to achieving this vision. As such, the addition of industry-leading ISOBUS functionalities to the X25 and X35 consoles provides farmers with extreme flexibility and unmatched control at their fingertips.

The Agricultural Industry Electronics Foundation (AEF) has certified that Topcon X35 and X25 consoles have successfully passed the tests for the following ISOBUS functionalities, in compliance with relevant AEF ISOBUS Guidelines (including corresponding parts ISO-11783 standards):

- **UT 2.0** Capability of operating different implements from the same terminal, UT 2.0 functionality standardizes the communication between implements and terminals. The UT 2.0 AEF test covers the Virtual Terminal (VT) 3.0 standard.
- **AUX-N 1.0** Capability of controlling certain implement functions which support the AUX-N standard by means of an additional control element such as an externally mounted joystick. The use of AUX-N compatible equipment allows the operator to simplify tasks such as switching the machine on or off or unfolding the implement.
- **TC Bas 1.0** The implement provides the basic totals values that are relevant for the work performed. This total information is then the basis of the exchange of data between the farm management system and Task Controller in ISO-XML data. Jobs can easily be imported to the task controller and/or the finished documentation can be exported later.
- **TC Geo 1.0** Allows the user to carry out map-based task including variable rate applications, it also records as applied and position information for enhanced traceability. This data can then be exported in the universally recognized ISOXML data format.
- **TC SC 1.0** Task Controller Section Control. Automatic switching of sections, based on GPS position and desired degree of overlap. This allows the user to optimize product use and ensure application only occurs where required.

As well as the certified functionalities, Topcon X25 and X35 already offer other features for which there is no certification test yet:

- **Peer control:** Allows the transfer of information between a sensor, the task controller and the implement in real time. This enables changes in the crop to be adjusted for instantly offering improved flexibility.
- **File Server (FS):** Can receive or load information to an ECU such as configuration information or software updates.
- **Diagnostic Server (DS):** Has an interface to check what devices are present on the ISOBUS, how they are set up, along with other information such as their AEF certification level and firmware version.

An ISOBUS functionality can be explained as a “module” on the ISOBUS. One or more can be bundled together to interconnect with other products that contain AEF Functionalities. Only functionalities supported by all components involved can be used. To find out which functionalities are present in ISOBUS components, the AEF ISOBUS Database is available at www.aef-isobus-database.org

Product	Update	Available Functionalities	Combined Functionalities	Certification
Topcon Agricultur... Electronic Compon... Terminal X Series Consoles X25 Product Version		UT 2.0 AUX-N 1.0 TC Bas 1.0 TC Geo 1.0 TC SC 1.0	---	AEF Certified ISO 11783
Topcon Agricultur... Electronic Compon... Terminal X Series Consoles X35 Product Version		UT 2.0 AUX-N 1.0 TC Bas 1.0 TC Geo 1.0 TC SC 1.0	---	AEF Certified ISO 11783