

2.4 | Tractor / Electrohydraulic Compatibility

COMMAND can make use of either in-built rear tractor electrohydraulic valves, commonly referred to as SCVs (Selectable Control Valves) or auxiliary remotes, or externally mounted electrohydraulic valves.

For each valve type, **COMMAND** is able to provide two raise and lower functions for automatic control of function 1 (e.g. height) and function 2 (e.g. cross-slope / tilt). For CANBUS based valve types, any available SCVs/Remotes will be available for selection.

For proportional solenoid, Analog Voltage (0-5V) and Danfoss PVE types, the number of selectable outputs is limited to the number of available physical outputs on the ECU suitable for analog voltage laser inputs or external EH valves.

Valve Interface	Description	Suitable example tractors/valves
<i>JD CAN</i>	COMMAND can communicate directly with John Deere SCVs over CANBUS, sending flow requests that will be enacted by the John Deere tractor hydraulic system.	Most modern John Deere tractors, e.g. 8R, 8RT, 9R, 9RT, 9RX.
<i>Proportional Solenoid</i>	COMMAND can provide closed-loop PWM signals suitable for controlling external proportional solenoid valves requiring maximum flow current of less than 2 Amps.	Scraper systems using external proportional solenoid valves such as Eaton Vickers, Rexroth or Hydac.
<i>J1939</i>	COMMAND can communicate directly with the T3RRA VM or other compatible hydraulic controllers using the J1939 messaging standard.	Tractor/scraper systems requiring manual controls beyond what the COMMAND ECU is capable of providing.
<i>Fendt ONE</i>	COMMAND can communicate directly with Fendt SCVs over CANBUS, sending flow requests that will be enacted by the tractor hydraulic system.	Fendt Gen 7 / ONE tractor models

Valve Interface	Description	Suitable example tractors/valves
<i>PWM to 0-5V</i>	Using the T3H-V001 legacy analog output adapter, COMMAND can provide 0-5V analog voltage signals suitable for John Deere legacy proportional SCV controller or Case 0-5V EHR controller inputs.	John Deere legacy proportional laser inputs or Case 0-5V EHR inputs.
<i>Fendt SCR/S4/MT</i>	Using the Fendt SCV adapter, COMMAND can communicate directly with Fendt SCVs over CANBUS, sending flow requests that will be enacted by the tractor hydraulic system.	Fendt SCR, S4 and MT models where the SCV control bus is separated from the ISOBUS.
<i>Danfoss PVE</i>	Using the PVE Valve Adapter, COMMAND can provide 0-Vs ratiometric voltage signals suitable for controlling external Danfoss PVEM, PVEA, PVEH and PVES valves.	Scraper systems using external closed-loop proportional valves such as Danfoss PVEM, PVEA, PVEH or PVES.