

PL2005 Control Box Grade and Slope Control System

Mini-Line®

The PL2005 is the control box for the Mini-Line Grade and Slope Control System designed to automatically maintain the desired grade and slope when paving.

With a simple user-interface the PL2005 can be operated in manual and auto mode, and minimum pulse, working window, sensitivity and dead band can be set up. In auto mode, the PL2005 will take control over the tow point valve and automatically adjust the grade or slope to follow the set reference so that mat thickness is maintained with millimeter precision. Turning knobs allow the operator make necessary adjustments to the mat thickness during paving.

The LED panel with high visibility in poor and bright sunlight gives the operator a visual indication of how the current mat thickness is following the set reference, and the split display panel provides a full overview of grade and slope for both sides of the machine.

The PL2005 control box can adapt both grade and slope sensors, allowing the operator to quickly switch from grade to slope control and to monitor the slope when operating grade control in both sides of the machine. In addition to a slope sensor, up to four sonic grade sensors can be supported in an averaging setup on each side.



The PL2005 and Interface Box

PL2005 Paver Control specifications	
Part number	S-51001 (for one side) S-51002 (for the other side) S-51003 Interface Box
Power supply	12/24 Volt System (10-30 VDC)
Power consumption	Typical at 24 VDC 75 mA (Control Box) Typical at 24 VDC 40 mA (Interface Box) Max 200 mA (Control Box) Max 200 mA (Interface Box)
Dimensions (LxWxH)	175x145x75mm (Control Box) 230x117x85mm (Interface Box)
Weight	1.9 kg (Control Box) 1.5 kg (Interface Box)
Output (to valves)	ON/OFF, PNP or NPN max 1.2A continuously, 2.0A pulsed
Operating temperature	-10°C to 70°C
Storage temperature	-40°C to 85°C
Resolution	Grade 1 mm Slope 0.05%
System control parameters	Sensitivity Working window Minimum pulse Machine width Dead band
Communication bus	Control Box: CAN Interface Box: CAN + RS485 for sensors
Connectors	Cannon bayonet plug, male 6 pin

Sensor Options



G224



G221



S299



G220

v. H803503