

## HS301 Proportional Handset Grade and Slope Control System

**Mini-Line®**

The HS301 handset is the handheld controller for the Mini-Line Grade and Slope Control System designed to automatically maintain the desired grade or slope when paving.

With a simple user-interface the HS301 can be operated in manual and auto mode, and minimum pulse, working window, sensitivity and dead band can be set up. In manual mode the tow point is adjusted manually, and desired reference level set. In auto mode, the HS301 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. Up and down buttons 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. As a handheld device, the handset features a bail, allowing the operator to easily grab, operate and re-mount the HS301 handset during operation.

The HS301 handset can adapt both grade and slope sensors, allowing the operator to quickly switch from grade to slope control. In addition to a slope sensor, up to four sonic grade sensors can be supported in an averaging setup.



HS301 Handset

### HS301 Proportional Handset Specifications

|                            |                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                | S-50333 (mm, default output NPN)<br>S-50334 (inches, default output NPN)                                                             |
| Application                | Handheld Controller for Grade and Slope Control                                                                                      |
| Power Supply               | 12/24 Volt System (10-30 VDC)                                                                                                        |
| Power Consumption          | Typical at 24 VDC 60 mA<br>Max 200 mA                                                                                                |
| Dimensions (LxWxH)         | 135x68x45mm / 5.3x2.7x1.8in                                                                                                          |
| Weight                     | 350g / 0.8lbs                                                                                                                        |
| House                      | Aluminium                                                                                                                            |
| Storage Temperature        | -40°C to 85°C / -40°F to 185°F                                                                                                       |
| Operating Temperature      | -10°C to 70°C / 14°F to 158°F                                                                                                        |
| Display Resolution         | Grade 1mm / 0.1 inch<br>Slope 0.1%                                                                                                   |
| Handset Control Parameters | Sensitivity<br>Working Window<br>Minimum Pulse<br>Dead Band                                                                          |
| Communication Bus          | RS485                                                                                                                                |
| Connector                  | Cannon Bayonet Plug, male 6 pin<br><br>A: Vbat      D: Output down<br>B: Gnd      E: Com A RS485<br>C: Output up      F: Com B RS485 |
| Output (to valves)         | Proportional, NPN or PNP<br>max 1.2A Continuously, 2.0A Pulsed                                                                       |

### Sensor Options



G224



G221



S298



G220