

Program variation for Digital Spirit Level

Back in October 2011, we published a program variation for the Digital Spirit Level (August 2011) which allowed it to read gradients as a percentage rather than in degrees. That was useful but readers commented that the auto switch-off is a nuisance in some applications. What was wanted was a variant like the G-Force meter (November 2011) which has a normal power switch.

Accordingly, a new version of the code has been created which eliminates the auto switch-off facility. It still reads degrees or percentage, as selected by pressing the calibrate switch for about five seconds and then the display will toggle between the two modes. A short press on the calibrate button will zero the reading, as in previous versions.

The calibration reading and the selected mode are stored in non-volatile memory so you do not need to select the mode each time you

use the device. Hence, in the degree mode, the instrument reads from 0° to 360° in 0.1° increments. In percentage mode, it shows 0.0% to 99.9% gradient between 0° and 45° and between 180° and 215° .

Conversely, it displays 0.0% to -99.9% between 315° and 360° and between 135° and 180° .

The software, Digital Inclinator Always On.zip, can be downloaded from the SILICON CHIP website.

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