

SETTING STANDARDS FOR LEATHER THICKNESS WORLDWIDE

SG300 SUBSTANCE GAUGE



UK REGISTERED DESIGN NO. 2 046 049 | US DESIGN PATENT NO. 379 938

The **SG300 Substance Gauge** is ergonomically designed to give perfect balance and is able to measure a greater depth of softer material than conventional units due to its unique triangular shaped frame.*



* material can be rolled up in the space
standard throat depth is 300mm

DIGITAL SUBSTANCE MEASUREMENT

The **SG300D Digital Softness Tester** is an easy to use unit offering two major features not found on the analogue version: (1) digitally displayed figures to within 0.01mm; and (2) statistical analysis of measurements taken.

The **SG300D** features an RS 232 interface, which enables links to be made to a computer for data manipulation and storage. To facilitate this, MSA can supply an ingenious software product which will allow data received for a PC's RS 232 port to be input directly into ANY application program that accepts keyboard input. Programs such as spreadsheets and databases can then be used to create customised analysis of data without expensive dedicated software.

Known as a software wedge, it's easily configured for use with any Windows application. Because the link between **SG300D** and your PC is provided in real time, flawless data entry is achieved. The wedge supports a rich set of dynamic data exchange (DDE) commands that allow other applications to take complete control of it's functions. This means that your target application program can perform actions once data is received from the **SG300D**, e.g. graphs or charts can be updated in real time, or calculations performed.



Alternatively, we can now offer **wireless capabilities** for the **SG300D** - comprising of a compact radio module that fits into the RS 232 on the digital gauge, and a receiver that fits into your PC. This allows for wireless transmission of measurement values from each gauge directly to your PC, using the latest development in interface technologies. Communicating with up to 120 gauges, and with a maximum transmission distance of up to 200m, the wireless data transfer module connects via a port on your PC. The PC transmits address numbers to each gauge's radio module where they are stored. The transmission of a measurement value is triggered simply by pressing the data key on the gauge module or gauge itself. An audible tone and visible light confirms a successful data transmission. Special data coding between the PC and the gauge radio module guarantees absolute data security.

FEATURES:

Re-engineering and extensive design modifications mean that the new generation **SG300** offers a number of advantages over previous models. A lighter frame means the unit now weighs around 28% less (at 1.3Kg compared with 1.8Kg previously). The rigidity of the gauge has been improved by 40%.

A specified anvil arrangement and spring force means the new design now conforms more closely to the criteria set out in international standard ISO 2589:2002 (Measurement of Thickness). To satisfy many quality issues and standards, the **SG300** can now be calibrated through a screw adjustable, constant force, spring mechanism, and units will be issued with calibration certificates.

The lever mechanism of the unit features a smooth needle roller action. This will give more consistent results, due to closer control of the test pressure and increased precision. Additionally, this roller action results in a more positive feel by the operator.

The dial indicator is now shank mounted (with axial adjustment) as opposed to the previous fixed back mounting. This will mean adjustments to the gauge can be carried out much easier and faster.

The sliding anvil is now close supported instead of floating, providing much better protection against damage. Units are more robust, resulting in increased consistency of performance over long term use. The anvil is now rigidly mounted against a shoulder. This fixed position also provides improved consistency of performance, increased accuracy, plus long term stability.



MSA ENGINEERING SYSTEMS LIMITED, 3 Assured Drive, Thurmaston, Leicester, LE4 8BB, United Kingdom
phone +44 (0)116 260 8866 | fax +44 (0)116 260 8861 | sales@msa-engineering.co.uk | www.msa-engineering.co.uk
Registered Office: 12 Shibden Hall Croft, Shibden Hall Road, Halifax, W. Yorkshire, HX3 9XF, UK | Registered No. 2636196 England

