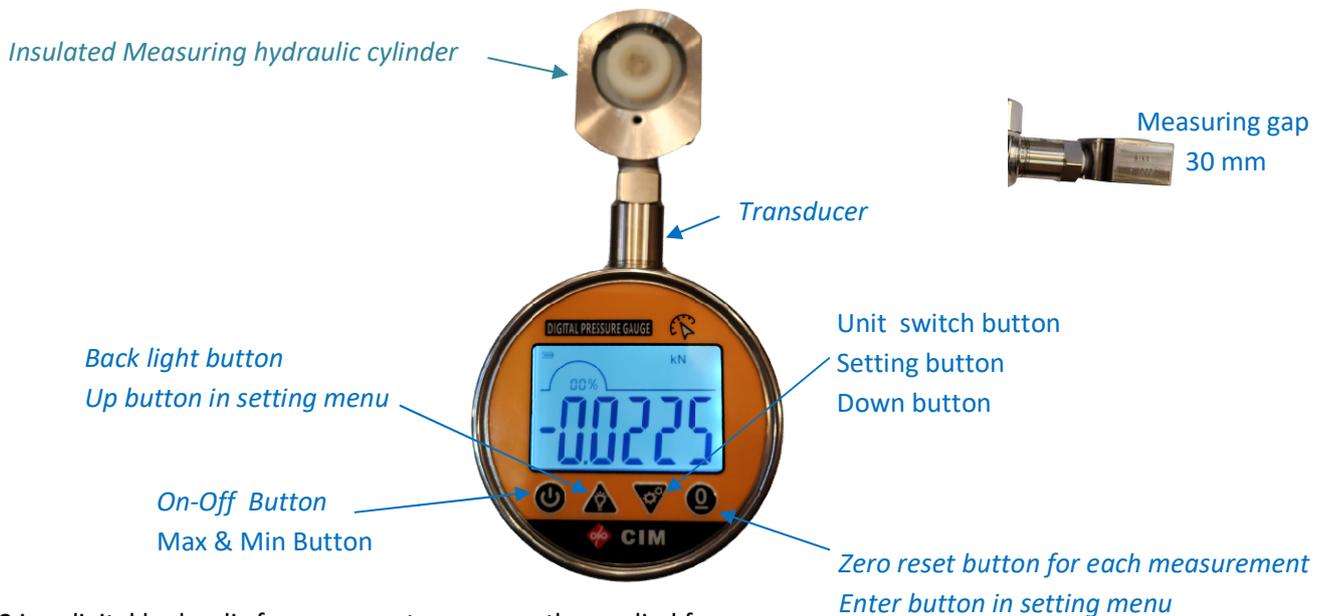


CIM FS-100 & CIM FS-100M



Spot Welding Force Measurement Gauge



FS-100 is a digital hydraulic force gauge, to measure the applied force on a spot welding operation.

There are 2 types of these instruments .

FS-100 , which is a chargeable device with lithium ion battery , capable of measuring the applied force between 0 & 1000 kgf (0 to 10000 dN) with recording the maximum and the minimum of the applied force during each measurement. By pressing “0” button, the previous values are reset and the new Min & Max will be recorded.

If you need to have previous measurements records as well, there is another type **FS-100M** which has memory for the previous measurements as well.

The measuring sides of the cylinder are electrically insulated, so there is no risk of short circuiting in case of active welding circuit, during a measurement.

Applied force: the amount of force that is applied to the weld is important. If too little force is applied, the joining area will be small and weak. If too much force is applied, then cracking can occur in the weld because of the quenching effect of the welding tips. Also, high force can cause thinning of the metal and cause a weakness. The depth of depression on the sheet surfaces caused by welding electrodes should never exceed 25 percent of the sheet metal thickness. Typically a body shop welds steel between 16 gauge and 30 gauge. If a spot welder has adjustable length tongs, a pressure gauge should be used to properly set the force. The force is important and should not be guessed at. (**NOTE:** The force of the TITE-SPOT Pliers is set to the middle of this range and is not adjustable.)

Ordering codes :

CIM FS-100 for the device with max and min hold

CIM Fs-100M for the device with max and min hold and memory for the previous measurements

Technical specifications:

Measuring range: 0 to 1000 kN (0 to 1000 kgf)

Measuring arm gap: 30 mm

Weight: 820 g

Power supply: lithium ion 4.2 v chargeable battery.(18650)

Power adaptor charger: 4.2 V

Hydraulic measuring cylinder height (welding arm gap arm gap) :30 mm

Maximum and minimum hold during each measurement

Backlight LED

Operating temperature: 5 to 40 centigrade