



Digital Welding Force Gauge

The WFG series of digital force gauge are state of the art technology in electrode force measurement.

Designed specifically for opposed and parallel gap weld head force measurement, these units combine robust ergonomic design with electronic precision, offering single handed operation in a durable and easy to use unit.

The units provide a friendly intuitive user interface with a large easy to read LCD display.

Force measurements can be displayed as grams, newtons or pounds and can be captured at any point with the display Hold button.

In addition all units provide an RS232 interface allowing measured data to be captured and analysed on a personal computer.

Key Features Digital Welding Force Gauge

- > External trigger input to capture electrode force at the moment a weld is triggered
- > Audible indication of errors, including overload, high and low force conditions
- > Automatic and manual tare functions
- > Automatic power off PP3 battery operation
- > User selectable measurement units.
- > Data HOLD feature
- > RS-232 data port for data capture and calibration
- > Operator mode, using set point and upper & lower percentage limits for force validation
- > Peak hold feature

Specifications Digital Welding Force Gauge

Model	Model WFG2	Model WFG7	Model WFG15
Force Range grams	10 – 1800 gr	50 – 7000 gr	100 – 15000 gr
Force Range pounds	0.25 – 4.5 Lbs	0.1 – 15.7 Lbs	0.25 – 33.7 Lbs
Force Range Newtons	1 – 20 N	0.5 – 70 N	1 – 150 N
Maximum Electrode Diameter	6mm (0.250 in.)	6mm (0.250 in.)	6mm (0.250 in.)
Resolution	better than 0.2%	better than 0.2%	better than 0.2%
Accuracy	1% of FS at 25°C	1% of FS at 25°C	1% of FS at 25°C
Trigger input	Contact closure less than 10 ohms or voltage input 5 to 24V	Contact closure less than 10 ohms or voltage input 5 to 24V	Contact closure less than 10 ohms or voltage input 5 to 24V
Communications input/output	RS232 standard IO for logging TTL levels for calibration	RS232 standard IO for logging TTL levels for calibration	RS232 standard IO for logging TTL levels for calibration
Operating/storage temperature	5 to 40°C	5 to 40°C	5 to 40°C
Operating voltage	9V DC - PP3 battery	9V DC - PP3 battery	9V DC - PP3 battery
Battery Life	Auto Power off - Battery life > 1 year	Auto Power off - Battery life > 1 year	Auto Power off - Battery life > 1 year
W x D x H	W = 140mm (5.6 in.) D= 45mm (1.8 in.) H= 33mm (1.32 in.)	W = 140mm (5.6 in.) D= 45mm (1.8 in.) H= 33mm (1.32 in.)	W = 140mm (5.6 in.) D= 45mm (1.8 in.) H= 33mm (1.32 in.)
Weight	400 gr	400 gr	400 gr

Product applications Digital Welding Force Gauge



Force gauge

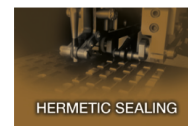


Opposed head

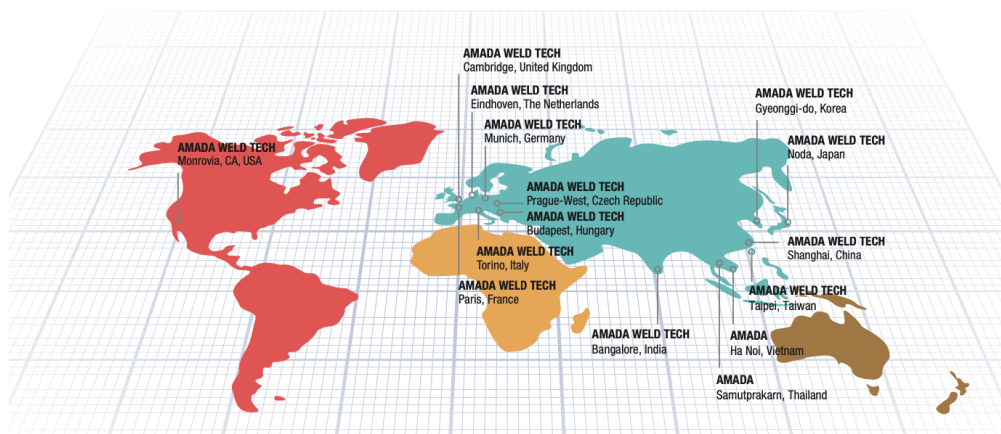
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