Force Gauge cum Weld Analyser
FGWA 6010 / FGWA 6020 / FGWA 6050

The **Force Gauge cum Weld Analyser** is microcontroller-based compact & lightweight instrument for accurate measurements of Electrode Forces and Weld Currents.

Features:

- User friendly interface,
- Big graphic fonts with backlight,
- Four keys only to operate 128 x 64 graphics LCD display with backlight,
- AC & DC current measurement & Force measurement,
- Weld analysis up to every half (10 ms.) cycle,
- Measures weld current, weld time (cycle/ms), conduction angle, number of pulses in the weld,
- Force measurement in Kg, lb, kN,
- Suitable for 12 – 32 mm Dia Tip / Shank / Holder,
- Small and light weight.

Specifications:

Model	FGWA 6010 = Range 60KA for Current & 1 Ton for Force Gauge.	
	FGWA6020 = Range 60KA for Current & 2 Ton for Force Gauge.	
	FGWA6050= Range 60KA for Current & 5 Ton for Force Gauge.	
Object of Measurement	Welding current, weld time and conduction time of 50/60 Hz AC	
	Force in Kgs and lbs , kN	
Detection of welding current & Force	Detection by the 'current detection coil' (CT) on the secondary side of the welding machine. Detection by the Force with Load cell	
Measurement	Current – Average RMS value for each weld pulse	
	Force	as per model up to 5 Ton
	Welding current	2 to 60.0KA
	Welding time	0.5 to 99.5 cycle (Resolution: 0.5 cycles)
		1- 1999 ms (Resolution : 1 ms)
	Conduction angle	30 – 180^0
Measurement accuracy.	Welding current	+/-2% KA
	Weld time	0%
	Conduction angle	+/-5%
	Force	+/- 10 Kg
The Display Method of Measurement Data	The average data of welding time, RMS welding current, conduction angle , & Force is displayed on 128 x 64 Graphics LCD.	
Charging Time	About 5 hours	
Operation Time	Continuous 6 – 7 hours	
Power consumption	During operation : 63mA	
Overall dimensions	180mm (h) x 85mm (w) x 35mm (d)	
Weight of Box, C.T, Force Gauge, Charger & Bag	About 3.5Kg	
Operation Temperature	0- 55^0 C	
Operation Humidity	10 – 90% (No dew)	
Accessories in Easy Carry Case	Durable Plastic Bag	
	Measuring Unit for Force & Current	
	CT Coil	
	Force gauge	
	Charger	

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