

WELDSCOPE MODEL WS-80 PRESSUREMATE MODEL RF-32P



The WS-80 Weld Scope and Pressure Gauges have been designed to ensure the accuracy and detail required by today's high quality welding manufacturers.

WELDSCOPE

The WS-80 measures welding current, cycle time and peak current. It saves the last **4,000** welds and prints to the built-in thermal printer or a PC. The WS-80 also has a wave form display, zoom function, toroidal coil, florescent display, multiple output options and a lithium backup battery.

FLEXIBLE AND RELIABLE

- 15 monitoring functions
- 3 selectable detection ranges
- Selectable printing output for quality assurance
- Generates upper and lower limit error signals
- "Good/No Good" output signals
- Detects secondary cable wear

ABILITY TO MONITOR:

- AC and DC welders
- Single or three phase welders
- Capacitor discharge welders
- AC seam welders
- Pulsation AC/DC welders
- Inverter welders

PRESSUREMATE

Dengensha's Pressure Mate RF-32P lets you easily set weld force with precision and ensures accuracy. It detects welding force up to 20KN and can be used on low or high force welders.

ACCURATE AND EASY TO USE

- Accurate to $\pm 3\%$
- 2 force ranges available
- Readouts in Kgf or KNF
- Convenient hand-held size
- Easy to read analogue dial



WS-80



RF-32P

SPECIFICATIONS OF WELDSCOPE MODEL WS-80

Specification items		WS-80
Power source		AC100V ± 10% Consumption : approx.50 VA
Detector		Toroidal coil
Detection range	Weld current	0.5 ~ 5 kA (5kA range) 2 ~ 20 kA (20kA range) 10 ~ 100kA (100kA range)
	Weld time	1 ~ 99 cycle
	Conduction angle	30 ~ 180 degrees
Detection accuracy	Weld current	± 2%
	Weld time	No error
	Conduction angle	3%
Display		Fluorescent graphic display
Printer	Kind	Thermal printer
	Items	Weld current, weld time, weld Nos., time Wave form, sequence No. Tip voltage
	Interval	Every time or selectable interval number
	Other	Only at error
Range set function		First : 1 ~ 99 cycle Length : 1 ~ 99 cycle
Detection mode		Impulse Multi-impulse Seam Contineous Capacitor discharge
External inputs		Solenoid valve signal : 1 (dry contact, DC24V, AC100V) Detect ON/OFF : 1 Window selection : 4 (dry contact or open collector)
External outputs		Error : 1 (upper/lower limit of weld current time, or no current error) Monitor judgement : 2 (good or no-good) Weld start signal : 1 Current wave (connected to oscillograph) Wave of tip voltage Welding data communication (RS-232C)
Data backup		Lithium battery
Dimensions (WxDxH)		240mmx178mmx290.5mm
Weight		6.1kg

Dengensha offers the world's most complete line of resistance welding equipment:

- Pedestal welders
- Specialty welders
- Nut feeders
- Bolt feeders
- Servo-spot weld guns
- Lightweight weld guns
- Welding monitors
- Welding controls
- Transformers
- Consumables
- Spare parts



7647 First Place Dr., Bedford, Ohio 44146
P: 440.439.8081 | F: 440.439.8217
www.dengensha.com | sales@dengensha.com
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