

**DENGENSHA**

# WELDSCOPE



**NEW  
PRODUCT**

**MODEL WS-80**



**DENGENSHA** MFG. CO., LTD.

**DGENSHA**  
**Measuring/Monitoring**  
**equipment for better**  
**weld quality**

*Fluorescent graphic display*

# WELDScope MODEL WS-80

## Wave form display

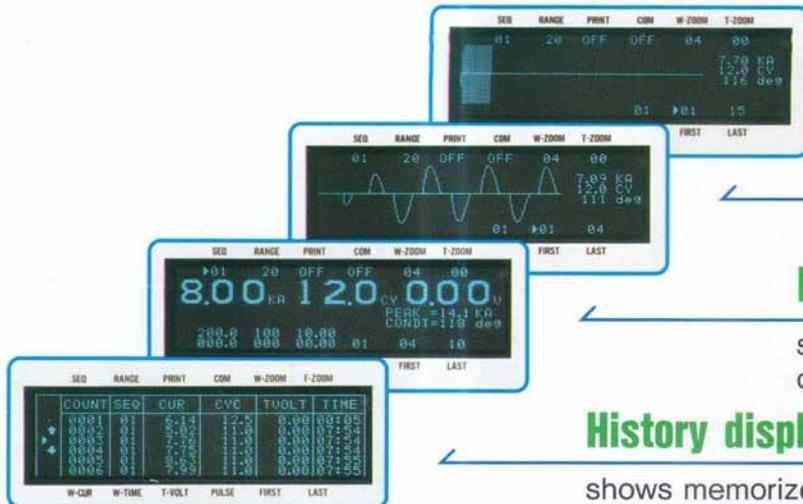
has a function to zoom wave form for checking details.

## Numeric display

shows effective current, peak current, conduction angle and weld time.

## History display

shows memorized last 800 welds.



WELDScope WS-80 is used not only to measure weld current and time but also to generate buzzer and relay contact when any error is detected by 15 monitoring functions.

It is possible to print out wave form and/or numeric data. Furthermore, it now has zooming function with an analogue dial as a new feature.

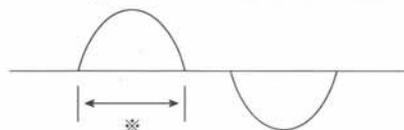
### Application

- Single phase AC
- Single phase DC
- Three phase DC
- Three phase low frequency
- Capacitor discharge
- Seam AC
- Pulsation AC/DC
- Inverter

### Conduction angle

Conduction angle<sup>(\*)</sup> measured periodically enables detection of secondary cable wear for preventive maintenance as an example.

(provided for all Models)



### Measuring range

Measuring range set function obtains more accurate current value by cutting off slope portion, etc.

(provided for all Models)

Specification items		WS-80	
Power source		AC100V±10% Consumption : approx.50VA	
Detector		←	
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 angel	←	
Detection accuracy	Weld current	←	
	Weld time	←	
	Conduction angle	←	
Display		Fluorescent graphic display	
Printer	Kind	Thermal printer	
	Items	Weld current, weld time, weld Nos., time	
	Interval	Wave form, sequence No. Tip voltage	
	Other	Every time or selectable interval number	
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 or time, or no current error) Monitor judgement : 2 (good or no-good) Weld start signal : 1 Current wave (connected to oscillograph)	
Data backup		Wave of tip voltage Welding data communication (RS-232C)	
Dimensions (W×D×H)		Lithium battery	
Weight		240mm×178mm×290.5mm	
		6.1kg	

 **DENGENSHA** MFG. CO., LTD.

Head office and main factory : 1-23-1, Masugata,  
Tama-Ku, Kawasaki-shi, 214-8588 Japan

Phone 044-922-1117

Fax 044-922-1100

Factories : Aichi, Toyama