Weld Analyser WA2

Keypad operations

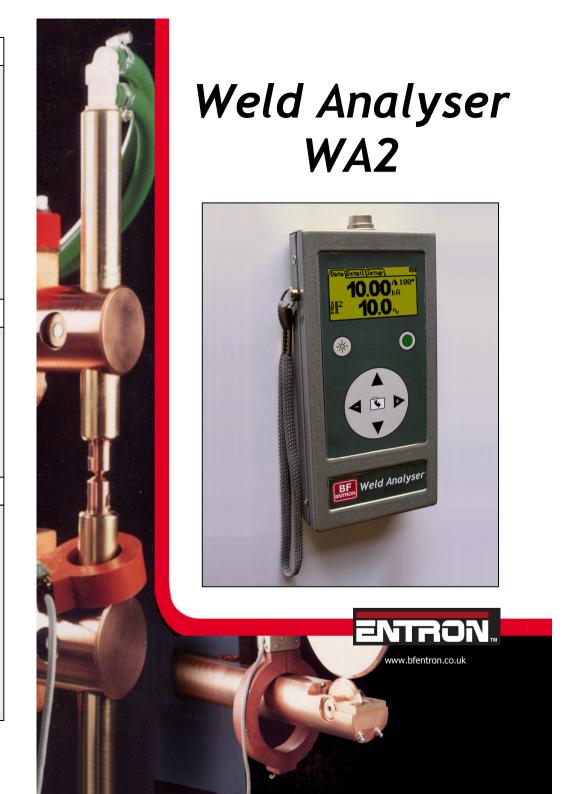| Key	Function on each display			
	Data	Detail	Setup	File
⏻	power on/off			
☀	backlight on/off			
▲ ▼	previous/next pulse	scroll up/down	previous/next parameter	
◄- -►	n/a	goto start/end when used with scroll keys	decrease/increase value	
🗁	goto next display/confirm			

USB connection
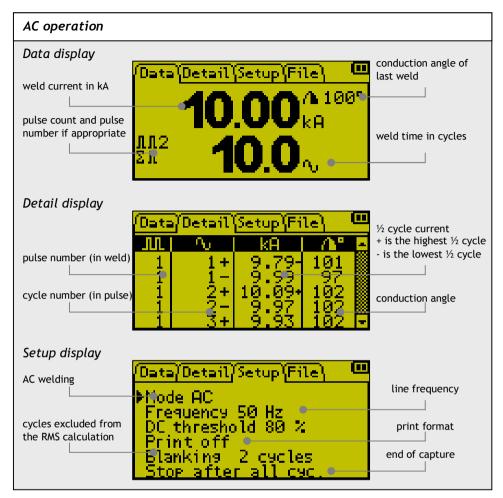
USB 2.0
USB A to USB mini B cable

The USB device is provided by Future Technology Devices International Ltd. and drivers for a number of different operating systems including Windows, Mac OS and Linux can be found on their website http://www.ftdichip.com/Drivers/VCP.htm.

Install the driver for your system by following the appropriate installation guide: http://www.ftdichip.com/Support/Documents/InstallGuides.htm

Specifications

LCD	128 x 64 pixels FSTN transflective with yellow/green backlight
keypad	embossed disc tactile switches with antiglare display window
maximum weld current	60 kA
maximum weld time	9999 cycles (AC) or 199.9 seconds (DC)
maximum capture	300 ½ cycles (AC) or 3 seconds (DC)
conduction angle	0° to 180° ± 4° (AC)
battery life	8 hours continuous with NiMH cells
auto power-off	10 minutes
dimensions	85w x 30d x 170h mm
weight	500 g including NiMH cells

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AC operation

Data display

weld current in kA

pulse count and pulse number if appropriate

conduction angle of last weld

weld time in cycles

Data | **Detail** | **Setup** | **File**
10.00 kA ↑ 100°
ЛЛ2 ΣЛ
10.0 ∿

Detail display

pulse number (in weld)

cycle number (in pulse)

½ cycle current
+ is the highest ½ cycle
- is the lowest ½ cycle

conduction angle

Data | **Detail** | **Setup** | **File**

ЛЛ	∿	kA	↑°
1	1+	9.79-	101
1	1-	9.93	97
1	2+	10.09+	102
1	2-	9.97	102
1	3+	9.93	102

Setup display

AC welding

cycles excluded from the RMS calculation

line frequency

print format

end of capture

Data | **Detail** | **Setup** | **File**
▶Mode AC
Frequency 50 Hz
DC threshold 80 %
Print off
Blanking 2 cycles
Stop after all cyc.

DC operation

Data display

weld current in kA

pulse count and pulse number if appropriate

weld time in cycles

weld time in ms

Data | **Detail** | **Setup** | **File**
10.00 kA
ЛЛ2 ΣЛ
100 ∿5 ms

Detail display

pulse number (in weld)

weld time (in pulse)

current for every 10ms
+ is the highest 10ms
- is the lowest 10ms

Data | **Detail** | **Setup** | **File**

ЛЛ	ms	kA	
1	10	9.79-	
1	20	9.93	
1	30	10.09+	
1	40	9.97	
1	50	9.93	

Setup display

% of weld included in RMS and duration calculations

time excluded from RMS calculation

DC welding

print format

end of capture

Data | **Detail** | **Setup** | **File**
▶Mode DC
Frequency 50 Hz
DC threshold 80 %
Print off
Blanking 20 ms
Stop after all ms

Setup notes

- **Mode** should be set to the type of welding current AC or DC
- **Frequency** should be set to the supply frequency 50 or 60 Hz (AC welding only)
- **DC threshold** – readings below this percentage of the maximum current will be excluded from the RMS and duration calculations (DC welding only)
- **Print via PC**
off – no printing ● all – prints every ½ cycle (AC) or 10ms (DC) reading ● summary – prints average current and duration for each weld pulse
USB driver www.ftdichip.com/Drivers/VCP.htm
- **Blanking** is the number of cycles/ms after the start of the weld that will be excluded from the RMS calculation
- **Range** determines the maximum current that can be measured
- **Auto shutdown** enables or disables the power saving mode
- **Stop after nn cycles/ms** can be used to capture a specific section of a long weld. If the weld is longer than this parameter, a ⊟ symbol will be shown alongside the weld time.

File operation

available memory
E Empty
F Full

file ID
0 to 99 or all

action cancel / save / load / erase / print

Data | **Detail** | **Setup** | **File**
E▬▬▬▬▬▬▬▬▬F
Action load
ID 01

Press 🛠 to confirm