

# SMART

## Real Time Weld Monitors

SWM SMART weld monitors deliver highly cost effective real time quality control measures and facilities to mature production line equipment. Touch panel PC setup and monitoring provides intuitive multi channel process window capture and checking together with built in SPC and trend analysis features.

Serving as a completely independent checking system, a SWM unit takes inputs from current and voltage transducers to produce and store real time electrical traces. These traces are then processed and compared against ideal traces in order to determine whether or not the welding trace is within the process tolerance banding.

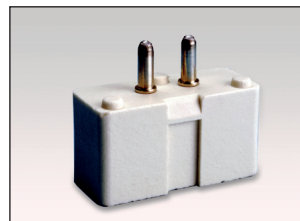
A key advantage of the SWM unit is its ability to provide process windowing around the electrical trace information. This effectively allows the process engineer to monitor only the parts of the process that most clearly define stability.

These units provide Ethernet, USB and RS232 connectivity allowing waveform data to be stored, transferred and analysed.

### KEY FEATURES

- 4 isolated monitoring channels
- Independent channel window monitoring
- Resistance or arc welding options
- SPC and Trend analysis
- Ethernet control & programmability
- Integrated control with weld schedules
- Secondary process feedback checks

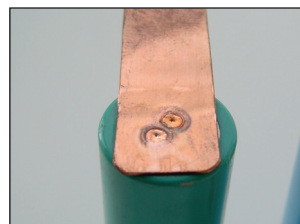
### TYPICAL APPLICATIONS



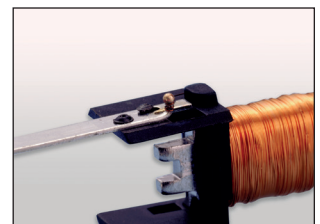
Connector pin termination



Micro wire pin connections



TIG Welding conductive tabs to batteries



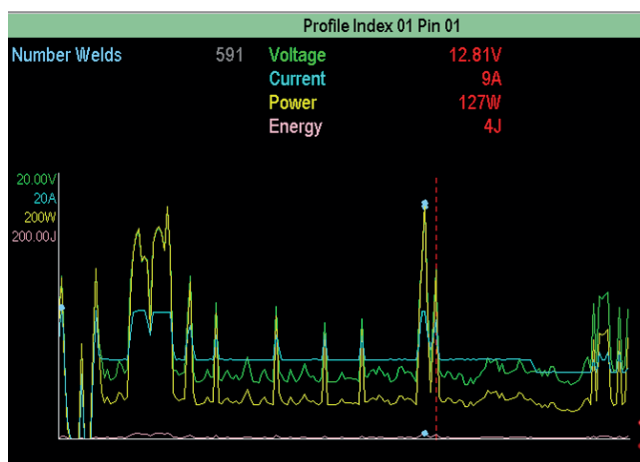
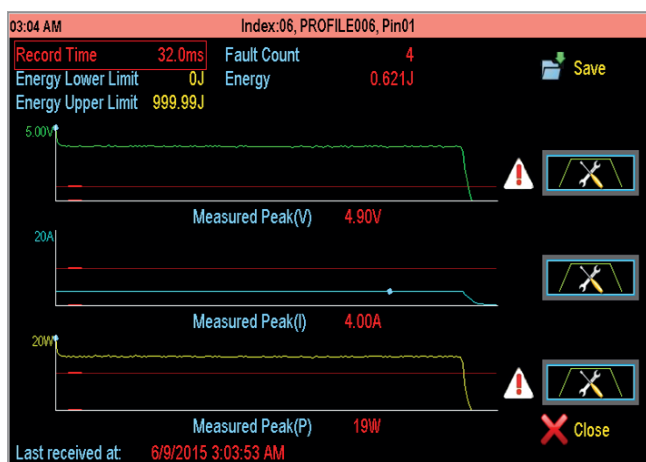
Zero contact coil termination

## TECHNICAL SPECIFICATIONS

Model	SWM-ARCMON
Current range	20 or 100A
Voltage range	100V
Measurement Channels	4
Cooling	Fan & filter
Accuracy	0.5% or better
Max trigger rate	2Hz
Power supply	95-265VAC 50Hz
Interfaces	Isolated PLC Digital, Ethernet, RS232, USB
Data Storage	2 GB internal SD card, External storage via Ethernet mapped drives

## SCREEN DIMENSIONS

Height X Depth	300 mm x 120 mm
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