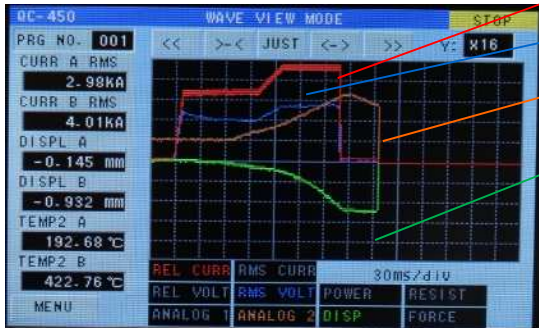


Highly Reliable welding by "Visualizing" welding process

Measure

255 Condition Setting

Easy Setting



- Current waveform
- Voltage waveform
- Analog waveform (Temperature)
- Displacement Waveform



Max. sampling frequency: 50kHz (Min. resolution: 0.02ms)

Max. welding time: 3 sec

Simultaneous measurement of 2 stage welding by one unit

Measurement Items : Voltage, Current, Power, Resistance, Conduction angle, Displacement, Pressure, Weld time, 2 external analog input (Thermocouple, Radiometer, etc.)

Visualize

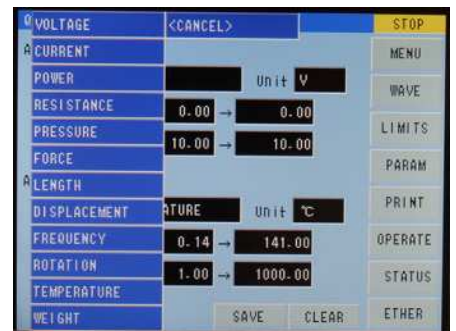
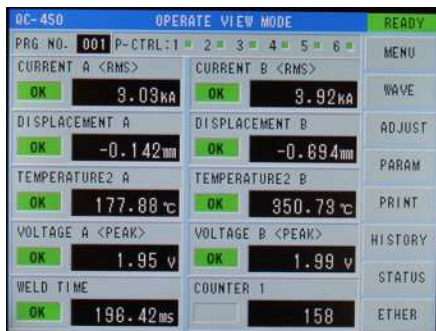
5.7" Color Touch Panel

Rich Information

Display Max. 10 items
(Measured/Calculated/Counted)

Run Chart display
visualizes the transition

Analog Measurement Item
11 Types (Unit: 22 kinds)



Visualization of the transition helps to estimate and comprehend ;

- Timing of electrode exchange
- Timing of switching welding parameter
- Degradation of equipment → → → Maintain quality by timely maintenance

Data Transfer

Via Ethernet

IoT

Analysis and comparison of accumulated transition data help to comprehend ;

- Variation among batches → → → Feedback to pre-process for improvement
- Variation among facilities → → → Common quality control worldwide

10 I/O output (Any 7 points), 6 process control output (Any 6 points)

Feedbacks support standardized quality by weldi stop by displacement control, etc.

Record

Integrated Printer

Easy data saving

Thermal printer

CF card

QC-450 High Performance Welding Monitor

Item	Specification	
Measurement	Current (RMS/PEAK), Voltage (RMS/PEAK), Weld time (Weld cycle), Displacement, Pressure, Conduction angle, External analog X2	
Monitor Display	Current (RMS/PEAK), Voltage (RMS/PEAK), Weld time (Weld cycle), Displacement, External analog X2 Pressure, Conduction angle, Power, Resistance, Calculated value	
Waveform Display	REAL Current, AVE Current, REAL Current, AVE Current, Power, Resistance, Displacement, Pressure, External analog X2	
Run Chart Display	PEAK Current, RMS Current, PEAK Voltage, RMS Voltage Power, Resistance, Displacement, Pressure, External analog x2, Calculated value, Time	
Current Measurement Range	50 ~ 2,000A, 100 ~ 20,000A, 1,000 ~ 100,000A	
Time Measurement Range	0.00 ~ 3000.00ms, 0.0 ~ 300.0CYC	
Display	5.7" color LCD touch panel	
Number of Conditions	255	
Printer	Thermal printer	
Interface	I/O	DC24V NPN, PNP, and external power Judgment output : 10 lines Process control output : 6 lines
	Communication	Ethernet
	Memory Card	CF Card
Input Power	AC100 to 240V ± 10% 50/60Hz	
Weight	5.6kg	
Dimension	W170 x H256 x D338mm	

Optional board is required for measurement of displacement · pressure.
Also, sensors are separately sold.

Option

Toroidal Coil



Toroidal Coil (x10)



AC Cable



 **NIPPON AVIONICS CO., LTD.**

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The appearance and specification are subject to change without notice.