High performance	e welding monitor 50		Simultaneous measurement and judgment of up to 10 items Current (RMS / PEAK), voltage (RMS / PEAK), weld time, displacement, pressure, conduction angle, external analog x 2
"Visualize" the we improve joining q	elding process and uality		<b>2 analog inputs</b> Analog signal input such as temperature sensor can be utilized
			<b>2 divisional measurement</b> 2-stage welding is also measured and judged respectively
			Maximum sampling frequency 50kHz Weld time resolution 0.02ms. It also supports transistor type welding power supply
			Process control output function Hi, Lo setting and alarm output can be performed for up to 6 types of sensor input signals.
	Avio QC:450		Displacement and pressure can be measured at the same time. Signal output is available based on set threshold.
	e orcup B		Ethernet communication function is equipped as standard
NEPPON ARCHINES COLUTE			
Item	QC-450 Troidal coil x1 (COIL13):0.50-20.00		
Current Measuring Ra	nge Troidal coil x10 (COIL12):0.0 Current sensor 10kA: 0.10-10.00kA, Current	050-2.000kA It sensor 20kA: 0.5	
Measuring Ite			
Voltage Measuring Ra			Option
Measuring Ite	,		
Measuring Ra	nge 0.1-3000μm, 0.5-15000μm, 1-3000	Im	

\*Maximum measurement range varies by the resolution Before welding, after welding 0.00-10.00N (TJ/TJS-1A), 0.0-196.1N (TJ/TJS-20A/R), 0.0-980.7N (TJ/TJS-100A/R), 0-4903N (TJ/TJS-500A/R), 0-9806N (TJ/TJS-1000A) Before welding, after welding ±10V (Dual system: Scaling, unit setting available) 0.00-3000.00ms, 0.0-150.0CYC 0-180°

0.00-100.00% Power: 00.00-999.9kW, Resistance: 00.00-999.9mD 5.7 color LCD touch panel 255

0-9999999 (Dual system: Up count setting, Notice setting) Applicable to DC24V NPN, PNP, external power source Judgement output: 10 system, process control output: 6 systems

> W170×D338×H265 (Excluding protrusions) ≒5.6kg



Toroidal coil (x1)



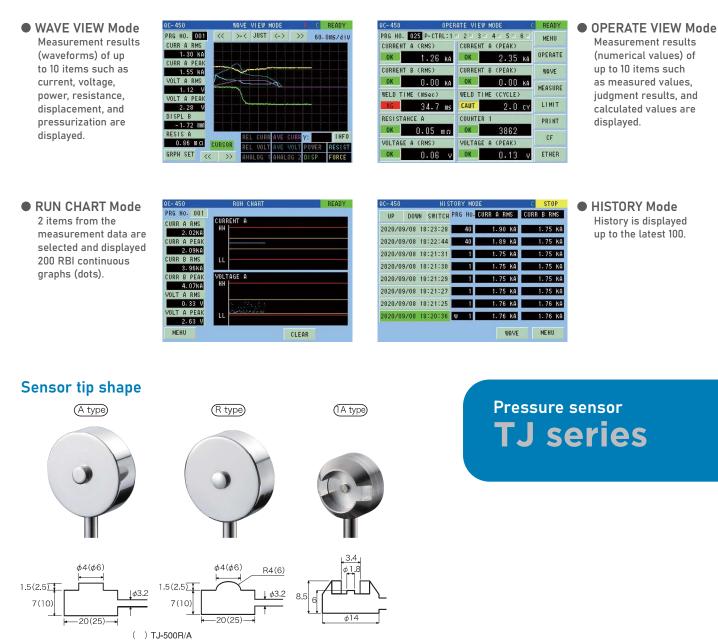
Toroidal coil (x10)

7

Analog Output

Pulse Width

## Versatile monitor functions Visualization of welding process



## Pressure sensor for incorporation into the system head

Example of integration



NA-125, NA-126



NA-12X series, NA-13X series, NA-14X series



ltem	TJS-1R	TJS-20R	TJS-100R	TJS-100A-NA124	TJS-500A-NA126		
Measuring Range	0 - 10N	0 - 196N	0 - 980N	0 - 980N	0 - 4900N		
Critical Load	20N	294N	1470N	1470N	7350N		
Accuracy	±3% (Range full scale)						
Applicable System Head	NA-121, 122, 123, 124, 131, 132, 141, 142			NA-124, NA-125, NA-143	NA-126		

\* A separate pusher is required to install in the system head.