

11

Measuring analyzing equipment for WPS/PQR

Welding Expert WPS **Model** WEW-7000

Patent No. 10-1081750 and 10-1125216



Monitech co.,ltd.
www.monitech.co.kr

Main Features

Existing PQR

- WPS work with two welders and one measurement team
- Inaccurate measurements using Hook Meter
- Lack of credibility of measurement data
- It is impossible to check whether the interlayer temperature is maintained or not
- Less usefulness of measurement results



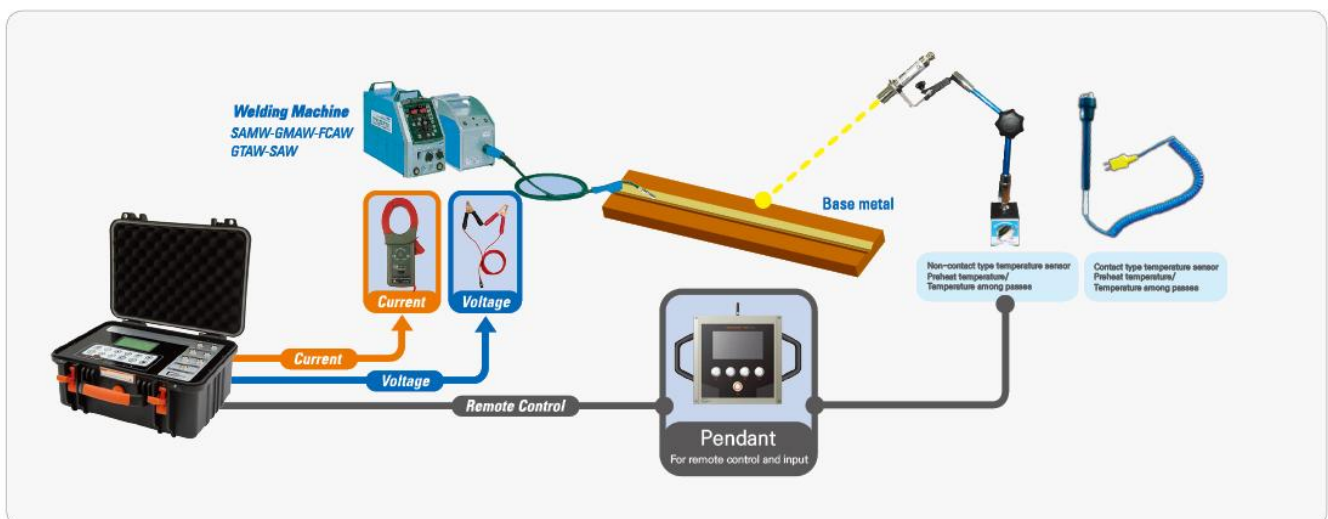
Benefits of WPS / PQR dedicated meter

- WPS work with only one welder
- Obtain highly accurate measurement value with built-in monitoring system
- High reliability
- Measure and store up to 500 passes
- Built-in continuous measurement and automatic collection function when stopping during pass
Actual interlayer temperature measurement, next pass after input process system
- Record on alarm and data during welding after specified time
- Various analysis of measurement result is possible
(WPS only: EXCEL conversion, WPS + PQR: Support detailed data and graph output such as change of heat input)

Main Purposes

- Essential equipment to nuclear relate industries, chemical plant, shipbuilding, wind power industry, etc.
- Obtaining the most reliable WPS and PQR data
- It can be used as an internal calibration reference instrument for welding machines

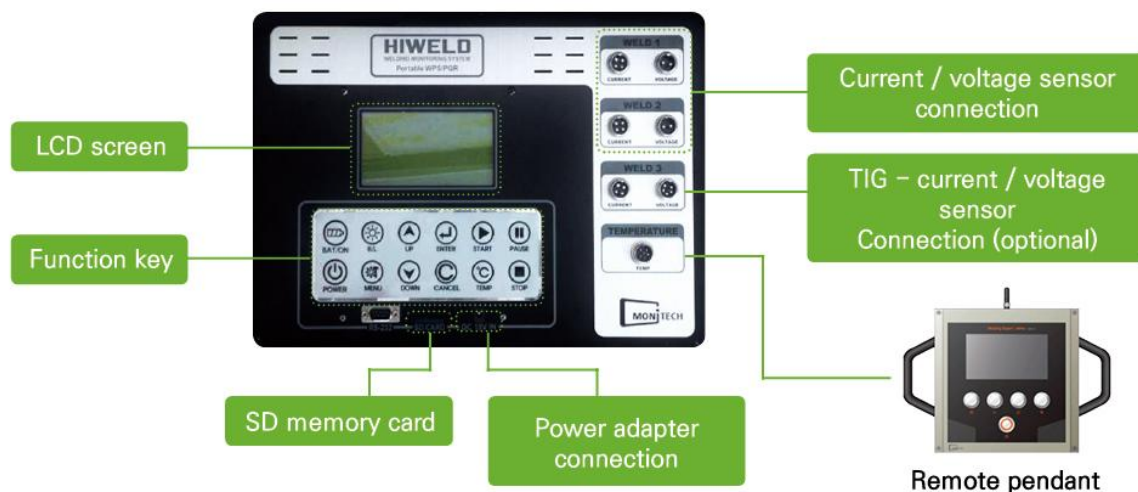
Basic Configuration of WPS



Main Clients

Hyundai Heavy Industries, Doosan Heavy Industries, EEW Korea, Daewoo Shipbuilding & Marine Engineering, Doosan Engineering & Construction, Korea Institute of Industrial Technology, etc.

Equipment structure



S/W Main Functions

- View to DB List

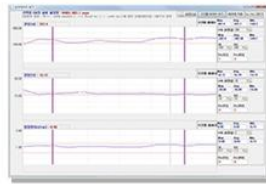
Bead number, inter-pass temperature, current (Max. Min and Ave) Voltage (Max. Min and Ave), welding speed and heat input (Max. Min and Ave)

- View Detailed data

Indication of each bead in detailed graph, able to set the upper and lower limit and calculate its spread



Data search screen



View detailed data



Factor value setting
according to thermal
efficiency



Test welding record

Specification

Model Name	WEW-7000
Size(mm)	415(W)X325(D)X195(H)
Weight(kg)	5.5
Applicable process	SMAW, GMAW, GTAW*, FCAW, SAW (TANDEM Available) * Optional
Maximum number of Pass	Sequential measurement and storage up to 500 passes each test specimen
Data inquiry	Data query through an exclusive LCD (main body) or data query and analysis using exclusive S/W
Data storage	Automatic storage in a SD Memory card
Measuring item	Current, voltage, welding speed, welding time, heat input, preheat temperature and inter-pass temperature
Product composition	Main body + Exclusive Pendant + Sensor + S/W

Real-time welding quality control and inspection solution

Real-time welding monitoring system

- 01. Welding quality monitoring system (ARC/SPOT/TIG)
- 02. Intelligent welding monitoring system
(NUT & BOLT Projection welding)
- 03. Welding calibration master equipment (ARC/SPOT/DUO)
- 04. MICRO SPOT welding monitoring system
- 05. High speed thermal imaging welding monitoring system
- 06. Ultrasonic welding monitoring system
- 07. Laser welding monitoring system

Welding process measurement and equipment

- 08. Welding force measuring gauge (FORCE)
- 09. Current and force gauge (HANDY)
- 10. Advanced current and force gauge (HANDY PRO)
- 11. Measuring analyzing equipment for WPS/PQR (WPS)
- 12. Welding waveform analysis management equipment (MULTI)

Inspection and integrated monitoring S/W

- 13. Integrated management and control system (MIS)
- 14. Inspection record computerized management system for the Initial, middle, and final products (IM)



Monitech co.,ltd.

ISO 9001 / ISO 14001 / INNOBIZ / Venture

Head office / R&D Center

92, Saebyeoksijang-ro, Sasang-gu, Busan,
46987, KOREA
Tel. +82-51-311-8691
Fax. + 82-51-311-8692
E-mail. monitech01@naver.com
Homepage www.monitech.co.kr
Blog. <http://blog.naver.com/yuria85>

Seoul branch / R&D Center

304, Sanjeong building
23, Gukhoe-daero 66-gil,
Yeongdeungpo-gu, Seoul,
07237, KOREA
Tel. +82-2-780-8691
Fax. +82-0303-0953-0954
E-mail. monitech2@naver.com