Remote Management System for Setting and Locking Welding Parameters

**World-Class Welding Quality at Your Doorstep**
- Panasonic Smart Factory Solutions India has set-up its state-of-the-art manufacturing facility in Jhajjar, Haryana, India. So our globally proven range of welding equipment including MMAW, MIG/MAG, TIG, Plasma Cutting, Welding Accessories and Welding Robots are now available at your doorstep.
- Assured commitment to long-term product support in terms of Sales, Service and Spares.
- All-India Sales and Service network.

**Key Features of RX1 Series**
- Inverter-based digital wave control GMAW and FCAW welding outfit.
- Higher efficiency and higher power factor results in greater power saving.
- Designed to work even under high ambient temperatures up to 50°C.
- Lightweight and compact MIG/MAG/FCAW welding outfit.
- Unique design of three layer and four room dust-free structure.
- RX1 Series is manufactured as per Std. IEC 60974-1:2000/GB 15579.1:2004.
- Fresh tip treatment and burn-back time control are adjustable.
- Works on 50/60 Hz frequency in power supply.
- Equipped with Synergic Mode (Unitary Function) in which welding voltage is set based on the welding current value automatically. The voltage can be adjusted finely to fit the best current values.
- Digitally controlled waveform enables superior arc characteristics.

**Important Safety Features**
- Over-voltage and under-voltage protection.
- Overheating protection.
- Single-phasing protection.
- Protective 8 Amps fuse for protection of wire feed motor.

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The Digital Inverter Advantage

High Quality Welding

Input voltage and wire consumption

The wire feed remains constant over a wide range of input voltage variations resulting in higher quality of welding.

During Welding
- More energy saving than conventional machines.
- High-speed CPU ensure more stable wire feed & intensive arc, thus improves the capability of energy saving.

At No-load
- When welding stops, the power supplied to the transformer is cut, so it costs no energy at no load state.
- Energy-saving circuit is activated 7 minutes after the end of welding.

Ideal for Diverse Industries
- Automotive
- Shipbuilding & Offshore
- Heavy Construction Equipment
- Railways
- Repair & Maintenance
- General Fabrication
- Civil/Project Construction
- Process Industry

Higher Energy Savings

Power-saving ON

Welding current 150A

400RX

400 Thyristor Machine

[Welding] Max. Reduce 28%

[Standing-by] Max. Reduce 85%

Standing-by-Power-saving

The welding seam is more uniform as compared to thyristor-controlled welding even during variation of input voltage.

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High Reliability and Easy Operation

- Designed for high temperature and humidity resistance.
- Can work even under high ambient temperature of 50°C.
- Extremely easy operation.

Indicative panel is of 400RX1 Model

Arc control offers soft setting to reduce spatter and hard setting to ensure more stable arc in high speed welding.

Other Significant Features

- Digital display of current and voltage control.
- Equipped with Synergic mode (Unitary function) in which welding voltage is set based on the welding current value automatically. The voltage can be adjusted finely to fit the best current values.
- Low power consumption than conventional machines.
- Power factor > 0.9
- Crater voltage and crater current adjustment through front panel.
- Arc force adjustment for better arc characteristics.
- Digitally controlled waveform enables superior arc characteristics.
- Gas check, wire diameter selection and gas selection switch on the front panel.

Wire Feeder and Torch Features

- Printed circuit wire feeder motor for better resolution and accuracy
- Cable-less remote controller mounted on wire feeder as well as lightweight cables enable better mobility.
- Maximum wire feed speed up to 20.1 m/min.
- Standard 2-Roll Drive and optional 4-Roll Drive available.
- Ergonomically designed MIG torches reduces fatigue.
- Lightweight, durable and long lasting.

Remote Management Controller (Optional)

With this device these parameters can be set:

- Limit welding current
- Set users' password
- Lock welding parameters
- Display wire feed speed
- Set gas pre-flow and post-flow time
- Set Burnt back time
- Penetration depth control
- Recalibrate current and voltage meter

Euro Connector MIG Torch Available

- High Performance Euro Connector MIG Torch also available on demand.

Wire Feeder Available in Various Lengths

- Wire feeder available in standard lengths of 1.8 mtrs, 5 mtrs, 10 mtrs, 15 mtrs and 20 mtrs.

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## Technical Specifications

<table>
<thead>
<tr>
<th>INPUT</th>
<th>Unit</th>
<th>YD-250RX1</th>
<th>YD-400RX1</th>
<th>YD-500RX1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>Volts</td>
<td>415, +15%, -20%</td>
<td>415, +10%, -20%</td>
<td>415, +10%, -20%</td>
</tr>
<tr>
<td>Phase/Freq.</td>
<td>No./Hz</td>
<td>3ph/50-60</td>
<td>3ph/50-60</td>
<td>3ph/50-60</td>
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<tr>
<td>Max. Input KVA@415Vac</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>@100% Duty Cycle</td>
<td>KVA/KW</td>
<td>8.77</td>
<td>16.2/15.6</td>
<td>21.1/22.2</td>
</tr>
<tr>
<td>OUTPUT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated Current Range</td>
<td>Amps</td>
<td>50-250</td>
<td>50-400</td>
<td>60-550</td>
</tr>
<tr>
<td>Rated Output Range</td>
<td>Volts</td>
<td>12-26.5</td>
<td>16.5-35.5</td>
<td>17-41.5</td>
</tr>
<tr>
<td>Welding Current (40°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>@60% Duty Cycle</td>
<td>Amps</td>
<td>250</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>@100% Duty Cycle</td>
<td>Amps</td>
<td>193</td>
<td>310</td>
<td>500</td>
</tr>
</tbody>
</table>

### GENERAL

- **Power Control Method**: IGBT Inverter Controlled
- **Digital Display**: 4 Digit-7 Segment LED Display
- **Wave from Control**: Digitally Controlled Waveform
- **Welding Sequence**: a. Main welding, b. Main welding-crater (Crater repeat is available)
- **Ingress Protection Class**: IP 215, IP 23, IP 23
- **Insulation Type**: H
- **Cooling**: Forced air cooling
- **Power Factor**: Degree C > 0.9
- **Dimensions (LxBxH)**: 545x380x570
- **Weight**: Kg 44

### WIRE FEEDER

- **Rated Welding Current**: Amps 250
- **Applicable wire diameter**: mm 0.8, 1.0
- **Cable Length**: Meter 1.8 m (gas hose 4.8m)
- **Weight**: Kg 10
- **Wire Feed Speed**: Meter/ Minute 5.20.1
- **Duty Cycle %**: 60

Wire feeder available in standard lengths of 1.8 mtrs, 5 mtrs, 10 mtrs, 15 mtrs and 20 mtrs.

### WELDING TORCH

- **Rated welding current**: Amps 350
- **Duty Cycle**: 10 Min. Cycle Continuous
- **Applicable Wire Diameter**: mm 0.8, 1.0, 1.2
- **Weight (incl. Cable)**: Kg 2.8

### ORDERING INFORMATION

- **Power Source**: YD-250RX1DJE, YD-400RX1DJF, YD-500RX1DJF
- **Wire Feeder**: YW-25K83DTE, YW-40K98D0A, YW-50K98D0R
- **Welding Torch**: YT-35C54D0F, YT-40C54D0F, YT-50C54D0F
- **Remote Management Controller**: TSMY290

### FOR STAINLESS STEEL MIG/MAG WELDING FOLLOWING CONFIGURATION

- **Power Source**: YD-250RX1DJ5S - Stainless steel welding model, 0.8 mm/1.0 mm dia wire Solid SS wire & Solid MS wire
- **Wire Feeder**: YW-25K83DTE, YW-40K98D0A, YW-50K98D0R
- **Welding Torch**: YT-35C54D0F, YT-40C54D0F, YT-50C54D0F

- **Power Source**: YD-400RX1DJ5S - Stainless steel welding model, 0.8 mm/1.2 mm dia wire Solid SS wire, Solid MS wire, FCW
- **Wire Feeder**: YW-25K83DTE, YW-40K98D0A, YW-50K98D0R
- **Welding Torch**: YT-35C54D0F, YT-40C54D0F, YT-50C54D0F

- **Power Source**: YD-500RX1DJ5S - Stainless steel welding model, 1.2 mm dia wire solid SS, 1.2 mm/1.6 mm solid MS wire & FCW

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Panasonic has set up its own state-of-the-art welding equipment manufacturing facility at Jhajjar near Gurugram, Haryana, India. For more information and service related queries please write to: welding.info@in.panasonic.com, Psfsin.enquiry@in.panasonic.com

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China Factory: No. 9 Qilingan Rd, Tangshan New & Hi-tech Industrial Park, Hebei, China.
Sales Offices at Ahmedabad, Bengaluru, Bhubaneswar, Mumbai and Hyderabad.

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