The DPR 100 C and D recorders are designed to meet the recording needs for most recording applications. They provide clear and easy to understand charts, full chart documentation and a wide choice of ranges and actuations that allows the user to document the process and what has occurred.

The two versions are:
DPR 100C: 1 to 3 continuous pen
DPR 100D: 3 or 6 channel multipoint.

Their large bright display, together with their outstanding chart visibility and fluorescent illumination makes it easy to read and interpret from a considerable distance.

They are particularly suitable for chemicals, pharmaceuticals, power generation, metals, environmental monitoring and food processing applications.

**MAIN FEATURES**

- 100 mm chart width (DIN 16230).
- 0.1 % accuracy full scale (IEC 873) applicable on a very wide choice of actuations and of ranges.
- Each input span is adjustable within the selected range, with up to 2 ranges per channel.
- Universal input board (T/C, RTD, mV, mA).
- Alphanumeric display: 12 digits or bargraphs, adjustable brightness.
- Roll or fan fold chart.
- Fully documented chart with trace colour assignment, alarm trend in red, tagging, zooming, zoning, trend or tabular print outs, Messages for all inputs up to 500 mm/h.
- Up to 10 traces (6 analogue, 4 digital inputs) on the multipoint DPR 100D
- Permanent operation up to 50°C (120°F) with fanfold, 60 °C (140°F) with chart roll.
- Full configurability thru: front keys and interactive program menu in 6 languages as standard, Optional: by Honeywell supplied PC software connected via the front jack, or by communication, with multilevel password security.
- 12 user configurable messages alarms or recorder events.
- 4 lines batch header automatically incremented and saved in case of power failure.
- Event precursor mode.
- Firmware upgrades via the front jack.
- Input calibration traceability (audit-trail).
- 12 alarm set points, assignable to any input, math result, comm signal.
- 2 configurable chart speeds, selectable via alarm, logic input, front keys and communication.
- Universal power supply 85 to 264 VAC 50/60 Hz, 24 or 48 AC/DC
- IP 54 front protection (IEC 529).
- Compact dimensions:
  1. 144 x 144mm x 245mm (5.67” x 5.67” x 9.7”)

**OPTIONS**

- Up to 12 relay outputs assignable to (14 characters each).
- Up to 4 logic inputs.
- Mathematic packages, with the results saved in case of power failure. Math functions can be interconnected.
- 24 VDC transmitter power supply.
- Communication: ASCII, MODBUS RTU
- CSA approved. UL Listed.
- 2 Current output 4 to 20 mA option configurable on Analog Inputs, Maths or Communication.
Clear and fully documented chart

The best chart in the industry
With the roll chart, more than 90mm of chart is visible at any time. When fan fold paper is used, up to 80mm of chart is visible.

Pen

Multipoint
High printing performance

### DPR100 C Pen Recorder: Writing Speed

<table>
<thead>
<tr>
<th>Chart Speed</th>
<th>Chart documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 700 mm/hr</td>
<td>Up to 28 in/hr</td>
</tr>
<tr>
<td>700 to 1000 mm/hr</td>
<td>28 to 40 in/hr</td>
</tr>
<tr>
<td>1000 to 6000 mm/hr</td>
<td>40 to 240 in/hr</td>
</tr>
</tbody>
</table>

### DPR100 D Multipoint Recorder: Writing Speed

<table>
<thead>
<tr>
<th>#Inputs (See Note 1)</th>
<th>Continuous traces in colour with full chart documentation mm/hr (in/hr)</th>
<th>Dotted traces in colour with full chart documentation</th>
<th>Dotted traces in colour without chart range markings. Alarm messages are printed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10 to 1200 (0.5 to 48)</td>
<td>-</td>
<td>1200 to 1500 (48 to 60)</td>
</tr>
<tr>
<td>2</td>
<td>10 to 925 (0.5 to 37)</td>
<td>925 to 1000 (37 to 40)</td>
<td>1000 TO 1500 (40 TO 60)</td>
</tr>
<tr>
<td>3</td>
<td>10 to 775 (0.5 to 31)</td>
<td>775 to 1000 (31 to 40)</td>
<td>1000 TO 1500 (40 TO 60)</td>
</tr>
<tr>
<td>4</td>
<td>10 to 650 (0.5 to 26)</td>
<td>650 to 1000 (26 to 40)</td>
<td>1000 TO 1500 (40 TO 60)</td>
</tr>
<tr>
<td>5</td>
<td>10 to 550 (0.5 to 22)</td>
<td>550 to 1000 (22 to 40)</td>
<td>1000 TO 1500 (40 TO 60)</td>
</tr>
<tr>
<td>6</td>
<td>10 to 475 (0.5 to 19)</td>
<td>475 to 1000 (19 to 40)</td>
<td>1000 TO 1500 (40 TO 60)</td>
</tr>
<tr>
<td>7</td>
<td>10 to 400 (0.5 to 16)</td>
<td>400 to 1000 (16 to 40)</td>
<td>1000 TO 1500 (40 TO 60)</td>
</tr>
<tr>
<td>8</td>
<td>10 to 350 (0.5 to 14)</td>
<td>350 to 1000 (14 to 40)</td>
<td>1000 TO 1500 (40 TO 60)</td>
</tr>
</tbody>
</table>

Note: Number of traces: up to 6 analogue inputs and 4 digital event traces.

### Easy configuration

**Front Configuration**

A user friendly program with local language prompts (English, French, German, Italian, Spanish and Swedish) permits a full configuration of the recorder using the 6 front keys.

A Multi level password protects against unauthorized changes to the configuration. 2 different product configurations can be stored in the memory.

**PC Configuration**

Via the front communications jack the recorder can be configured from a personal computer using an optional PC interface module. In addition to the configuration, the PC will provide the ability to upload, download, modify, store the recorder configuration, initiate diagnostic test and provides the facility to linearise up to 2 customised input sensors (50 segments each).
The DPR 100’s compact, modular design and rugged construction reduces spare parts inventory and simplifies maintenance. Its operator-friendly configuration keys, easy to read digital displays, reliable alarm functions and customised charts ensure accurate monitoring and recording of your process.

1. IP54 door

2. Process data is clearly displayed on a large digital display. A 12 digit or bargraph display gives precise values that are visible up to 5 meters from the recorder.

3. The compact pen carriage module and high quality servo-motor chart drive ensure reliable operation of the pen carriage and printing mechanism. The ink cartridge and print wheel module are easily removed for quick replacement

4. Full configuration of the DPR 100 (any model) can be performed from a PC, having the Honeywell Software, an interface and the front jack.

5. Simple keys provide easy configuration and operation. Interactive prompt messages confirm modification of the configuration or function.

6. The universal input card module with 2 logic and 3 analogue inputs reduces configuration time.

7. The universal power supply accepts virtually any AC or DC voltage.

8. The plug-in terminal blocks allow easy maintenance.

Two paper types

Either roll or fan-fold paper cassettes can be used. Roll paper allows easier reading of historical data during operation and can be used in a wider temperature and humidity range. Alternatively, fan-fold paper allows easier data access when the record is stored.
## DPR 100 FUNCTIONAL SPECIFICATIONS

### Technical data

<table>
<thead>
<tr>
<th><strong>Technology</strong></th>
<th>Microprocessor based, with non-volatile memory. Flash memory for software upgrade via the front jack.</th>
</tr>
</thead>
</table>
| **Analogue inputs** | DPR 100C pen recorder  
2 or 3 continuous traces.  
Inputs are scanned by solid state switches and are galvanically isolated (except for RTD sensor).  
DPR 100D multipoint recorder  
3 or 6 channels.  
Signal source  
Thermocouple with individual cold junction compensation.  
Basic mathematics functions  
Square Root extraction ($\sqrt{ }$) Differential = ($\Delta T$).  
Filter  
A digital filter is configurable per input, 0 to 99 seconds.  
Field calibration  
A channel field calibration - 0% and 100% span - may be made to certify input sensor loop.  
Burnout  
T/C, mV, Volt, configurable to upscale, to downscale or none.  
Scanning time  
T/C, mV, mA, V.  
Input impedance  
10 Mohm for T/C, mV inputs. >1 Mohm for volt inputs.  
Stray rejection  
Series mode 60 db, Common mode at 250 Vac 130 db (in t/c inputs config.). |
| **Display** | 12 digit fluorescent display: 8.5 mm (0.33") high (matrix display) configurable in:  
- digital PV values with engineering unit in accordance with the input range  
- 1 or 2 bargraphs  
Can display analogue input, Tags, math results, communication, alarms or event messages.  
Brightness  
The display brightness is configurable. |
| **Recording span** | Per input, up to 2 analogueue scales can be configured to be printed on the chart with the engineering unit channel reference and tag name.  
Each input can be configured differently.  
Zoning  
Each input can be configured on 0 to 100%, or 0 to 50%, or 50 to 100% of the chart.  
Pen offset (Pen recorder)  
Distance between pen: 2 mm (0.08") - Offset compensation configurable.  
Pen cartilage speed  
Chart definition: 1 step = 0.2 mm (0.008").  
1 second full scale. |
| **Chart length** | Fan-fold 18m (59ft) (as DIN 16230)/ Roll 24m (79ft). |
| **Chart speed** | 1 or 2 chart speeds, fully configurable, selected by a logic input, alarm or configuration.  
Speed setting  
Speed 1: fully adjustable per step of 1 mm/h, within limit  
Speed 2: fully adjustable per step of 1 mm/h, within limit  
Continuous traces in color, dotted traces in configurable color with regular chart documentation (configurable).  
Stepping chart motor  
Resolution 0.12 mm. |
| **Product configuration** | 2 product configurations can be stored and selected by the front keys.  
A very simple and interactive product configuration can be carried out on the product with 6 front keys. A friendly program with prompt messages confirms the operation. The prompt messages can be selected in different languages: English, German, French, Spanish, Italian or Swedish. A 2-level password protects the unit from non-authorized modification (level 1 = limited access; level 2 = full protection).  
Through the front jack the unit can be configured from a PC through a PC interface.  
This provides the facility to copy the configuration, modify, store, upload or download the product configuration or make a service diagnostic or upgrade a new software or linearize 2 special customer sensors (50 segments each). |
### Technical data

#### Logic inputs

**Actions**
- Up to 4 dry contact inputs (1.5 mA - 12 V DC).
- Change chart speed 1 to speed 2, tab interval 1 to tab interval 2, digital print-out, print message, print inhibit, event trace, print a batch message, tabulate maths calculations.
- Event marking:
  - Pen: Pen 1 used as operation marker on the right side of the chart for event 1 and on the left side of the chart for event 2.
  - Mpt: 4 traces maximum on the chart. The trace position and the color are configurable.

#### Alarms

**Set-point**
- 12 alarm set-points, freely assignable to any channel and output relay

**Function**
- Full configurability of set-point, hysteresis and alarm type (high, low, rate of change, deviation).
- Can trigger a message, print channel red in alarm, print in alarm, change the range, change the speed, print digital PV values, trigger the event precursor.
- 2, or 6, or 12 SPST relay outputs: 2 A, 250 V AC on resistive load.

**Output**
- Contact N.C. in alarm condition (configurable in N.O.)

#### Alphanumeric documentation

**Messages**
- 12 freely assignable and configurable messages of 14 characters each, including the specific letters used in GE & SW.
- Can be printed with the date/time on top of the traces by alarms, logic inputs or communication.

**Batch header**
- One batch message of 4 lines of 14 characters, fully configurable, with incremented batch numbers and date/time. Printed through digital input and saved upon power interruption.

**Process variable**
- The traces can be assigned to analogue input, mathematics calculations or communication inputs, and are printed in channel color. Periodic digital printing at intervals configurable from 60 to 480 mm (2.36” to 18.9”). Digital print-out of PV values through alarms, digital inputs, communication or front keyboard. Each channel can be named by 8 characters.

#### Event precursor

**Stand-by**
- The acquisition data is stored in a buffer memory (FiFo)
- A stand-by message is periodically printed.

**Downloading**
- On event (alarm, digital input, front key, communication) the data is downloaded to be printed on the chart at pre-configured speed.
- The history before and after the event represents about 50 mm of chart paper.

#### Mathematics package (optional)

Many functions are available such as:
- Basic mathematics functions
- Fo sterilization
- Mass flows
- Vacuum pressure
- Min, max
- Carbon Potential
- Square root
- Totalization
- Energy consumption
- Averages
- Timers

The maths calculations and results are stored during power interruptions.

#### Digital communication (optional)

**Protocols**
- RS232 ASCII communication to PC application. RS422 or RS485 ASCII Communication output.
- RS232 or RS485 Modbus RTU communication output.

Through ASCII communication, application software gives the facility to read PVs, alarms or event status, to store the information on a file, to send a message to the recorder or to modify the product configuration.

The RS232 ASCII communication can dial automatically a phone number of a remote station to send via Modem an Alarm message or a periodic Report.

**Note:** Dialing out via modern autodial can affect data over communications as it uses the same communications port.

#### Event

The recorder can be configured to deliver an output signal (alarm relay) on a recorder event such as burnout, paper cassette out, battery fail, alarm condition or communication interrupted.

#### Current output (optional)

2 Current output signals 4 to 20 mA. Configurable on - Analogue Inputs, Mathematics Calculations, or Communication Signals

Base Load Resistor 400 ohms

#### Power supply

**To transmitters**
- 100 to 240 V AC/DC or 24 or 48 VAC/DC (+10-15% nominal)
- 24 V, 50 mA typical, 75 mA maximum mA
- 3 pens & Mpt: 55 VA max. (Active power 30w)
### Technical data

#### DPR100 C/D

<table>
<thead>
<tr>
<th><strong>Clock timer</strong></th>
<th><strong>Packaging</strong></th>
<th><strong>Mounting</strong></th>
<th><strong>Wiring</strong></th>
<th><strong>Writing</strong></th>
<th><strong>Noise immunity</strong></th>
<th><strong>Safety protection</strong></th>
<th><strong>Electrical insulation</strong></th>
<th><strong>Temperature</strong></th>
<th><strong>Humidity</strong></th>
<th><strong>Vibrations</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format</strong></td>
<td>Pen &amp; Mpt: 3.5 kg (7.7lb)</td>
<td>Panel mounting ± 30° from horizontal.</td>
<td>Rear screw terminals, Terminal modules plug onto the instrument boards.</td>
<td>1 cartridge per pen, fiber tip, 1400 m (4593ft) of trace per color (blue, red, green)</td>
<td>This product is in conformity with the protection requirements of the following European Council Directives:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power interruption</strong></td>
<td>144 x 144 mm (5.67&quot; x 5.67&quot;) according to DIN 43718</td>
<td>1 print wheel, 6 colors, 250 m (820ft) of trace per color (purple, red, black, green, blue, brown)</td>
<td>73/23/EEC, the Low Voltage Directive and 89/336/EEC, the EMC Directive.</td>
<td></td>
<td>73/23/EEC, the Low Voltage Directive and 89/336/EEC, the EMC Directive.</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>245 mm /9.7&quot; behind panel, including terminals and line protection cover</td>
<td></td>
<td></td>
<td></td>
<td>Conformity of this product with any other “CE Mark” Directive(s) shall not be assumed.</td>
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<tr>
<td><strong>Battery backed (10 years time, 3 years off power)</strong></td>
<td>Latch or key (DIN 43832-N)</td>
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<tr>
<td><strong>±10⁻⁵</strong></td>
<td>Silicon-free</td>
<td></td>
<td></td>
<td></td>
<td>Safety protection Complies with EN61010-1 and UL 3121 for process control instrumentation.</td>
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<tr>
<td></td>
<td>Fluorescent light</td>
<td></td>
<td></td>
<td></td>
<td>Pollution Degree 2. Installation Category II</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Rear terminal cover, portable case</td>
<td></td>
<td></td>
<td></td>
<td>Electrical insulation Continuous voltage up to 280 VAC or 400 VDC (except for RTD input)</td>
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<td></td>
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<td></td>
<td></td>
<td>Input to input Test voltage 2.1 kVDC for 1 minute</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td>Input to ground Test voltage 2.1 kVDC for 1 minute</td>
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<td></td>
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<td></td>
<td></td>
<td>Input to line voltage Test voltage 2.1 kVDC for 1 minute</td>
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<td></td>
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<td></td>
<td></td>
<td>Input terminal voltage Test voltage 2.1 kVDC for 1 minute</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td>Line voltage to ground Test voltage 2.1 kVDC for 1 minute</td>
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<td></td>
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<td></td>
<td></td>
<td>Alarm relay to ground Test voltage 2.1 kVDC for 1 minute</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Logic input to ground Test voltage 500 VDC for 1 minute</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Temperature 0 to 60°C (32 to 140°F) - Roll chart</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ambient 0 to 50°C (32 to 120°F) – Fan fold</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Storage -40 to +70°C (-40 to +160°F)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Humidity Roll 10 to 90% RH non-condensing</td>
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</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Fan-fold 15 to 80% RH non-condensing</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Vibrations Frequency 10 to 60 Hz, amplitude 0.07 mm; 60 to 150 Hz, acceleration 1 g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Accuracy

### Reference conditions

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>23 °C ± 2 °C (73 °F ± 3 °F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>65 % RH ± 5 % RH ± 1 %</td>
</tr>
<tr>
<td>Line voltage nominal</td>
<td>± 1 %</td>
</tr>
<tr>
<td>Source resistance</td>
<td>0 ohms</td>
</tr>
<tr>
<td>Seties mode</td>
<td>0 V</td>
</tr>
<tr>
<td>Common mode</td>
<td>0 V</td>
</tr>
<tr>
<td>Frequency nominal</td>
<td>± 1 %</td>
</tr>
</tbody>
</table>

**Accuracy**

Accuracy of displayed values: 0.1 % of selected input range (IEC 873) (except for ranges marked **, see below)

Cold junction accuracy: 0.5 °C

For mA inputs, the accuracy of the input resistor shall be added to the instrument accuracy. Chart resolution: 0.2 mm.

### Rated limits and associated drifts

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Rated limits</th>
<th>Influence on accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>0 to 50°C (32 to 120°F) Fanfold, 0 to 60°C (32 to 140°F) Chart Roll</td>
<td>0.1% per 10°C (50°F) Cold junction</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>85 to 264 V AC</td>
<td>No influence</td>
</tr>
<tr>
<td>Source resistance</td>
<td>T/C, mV</td>
<td>6 micro V per 100Ω of line resistance</td>
</tr>
<tr>
<td></td>
<td>1000 Ω mm</td>
<td>1000Ω±1 mm</td>
</tr>
<tr>
<td>Humidity</td>
<td>10 to 90% RH at 25°C</td>
<td>0.3°C /10°C (32.5°F / 50°F)</td>
</tr>
<tr>
<td>Long-term stability</td>
<td>0.1% per year</td>
<td>0.1% max.</td>
</tr>
<tr>
<td>Vibrations</td>
<td>1.25 mm at 0 to 14 Hz</td>
<td>0.1% per year</td>
</tr>
<tr>
<td></td>
<td>1 g at 14 to 250 Hz</td>
<td></td>
</tr>
</tbody>
</table>

### Extreme conditions:

#### Operating

<table>
<thead>
<tr>
<th>Temperature</th>
<th>0 to 60°C (32 to 140°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>10 to 90% RH non-condensing</td>
</tr>
</tbody>
</table>

#### Storage

<table>
<thead>
<tr>
<th>Temperature</th>
<th>-40 to +70°C (-40 to 158°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>5 to 95% RH non-condensing</td>
</tr>
</tbody>
</table>

### Available ranges

<table>
<thead>
<tr>
<th>Linear</th>
<th>RTD/OHMS</th>
<th>Thermocouple</th>
</tr>
</thead>
<tbody>
<tr>
<td>0/10 mV</td>
<td>Pt 100 ohm at O°C</td>
<td>J-50/150°C</td>
</tr>
<tr>
<td>-10/10 mV</td>
<td><strong>IEC -50/150°C</strong></td>
<td>J-50/150°C</td>
</tr>
<tr>
<td>0/20 mV</td>
<td><strong>IEC -58/302°F</strong></td>
<td>J-58/302°F</td>
</tr>
<tr>
<td>-20/20 mV</td>
<td><strong>IEC 0/100°C</strong></td>
<td>J-58/302°F</td>
</tr>
<tr>
<td>0/50 mV</td>
<td><strong>IEC 32/212°F</strong></td>
<td>J-58/302°F</td>
</tr>
<tr>
<td>-50/50 mV</td>
<td><strong>IEC 200°C</strong></td>
<td>J-58/302°F</td>
</tr>
<tr>
<td>10/50 mV</td>
<td><strong>IEC 32/392°F</strong></td>
<td>J-58/302°F</td>
</tr>
<tr>
<td>0/100 mV</td>
<td><strong>IEC 0/400°C</strong></td>
<td>J-58/302°F</td>
</tr>
<tr>
<td>-100/100 mV</td>
<td><strong>IEC 32/752°F</strong></td>
<td>J-58/302°F</td>
</tr>
<tr>
<td>0/500 mV</td>
<td><strong>IEC -200/500°C</strong></td>
<td>L-50/150°C</td>
</tr>
<tr>
<td>-500/500 mV</td>
<td><strong>IEC -3281932°F</strong></td>
<td>L-50/150°C</td>
</tr>
</tbody>
</table>

**Notes:** **: Accuracy: 1 °C (or 1.8 °F)

For non-linear temperature transmitter (1 to 5 V DC, 4 to 20 mA, 0 to 5 V DC, 0 to 20 mA) the transmitter range must be identical to the full actuation range of the recorder. Provision for T/C input for remote compensation box at fixed temperature of 50°C or 60°C. When temperature is not fixed, any input can be used as remote compensation temperature measurement. * mA inputs into 250 ohms input resistor.
DIMENSIONS

DPR100 C/D

CONNECTIONS

DPR100 C/D