

DPR100 C/D

PEN AND MULTIPOINT 100 mm DIGITAL RECORDERS

EN01-6021 06/2003

PRODUCT SPECIFICATION SHEET

PRODUCT DESCRIPTION

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 actuators 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.



DPR100 C
1 to 3 continuous pens

DPR100 D
3 or 6 channel multipoint

MAIN FEATURES

- 100 mm chart width (DIN 16230).
- 0.1 % accuracy full scale (IEC 873) applicable on a very wide choice of actuators 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:
 - 144 x 144mm x 245mm (5.67" x 5.67" x 9.7")

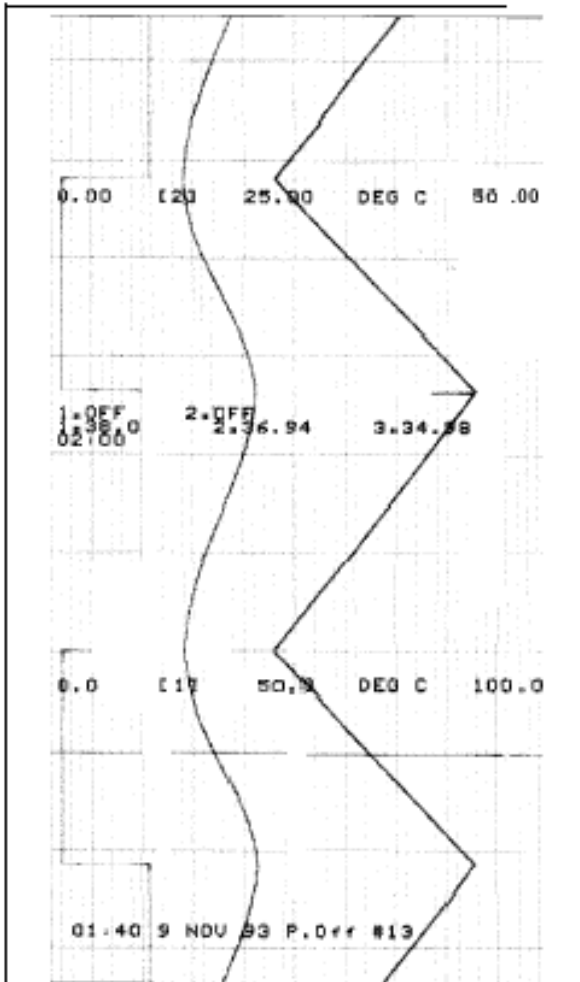
OPTIONS

- 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.

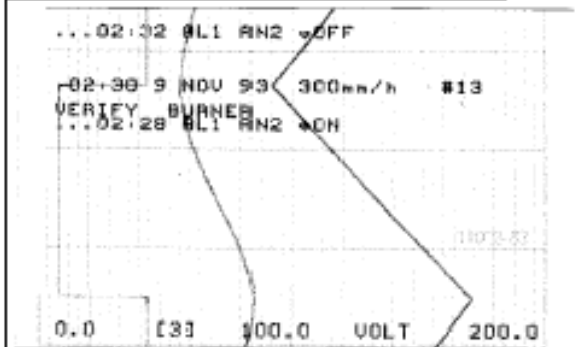
The best chart in the industry

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

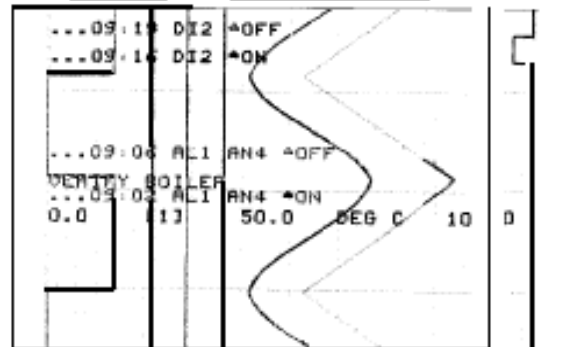
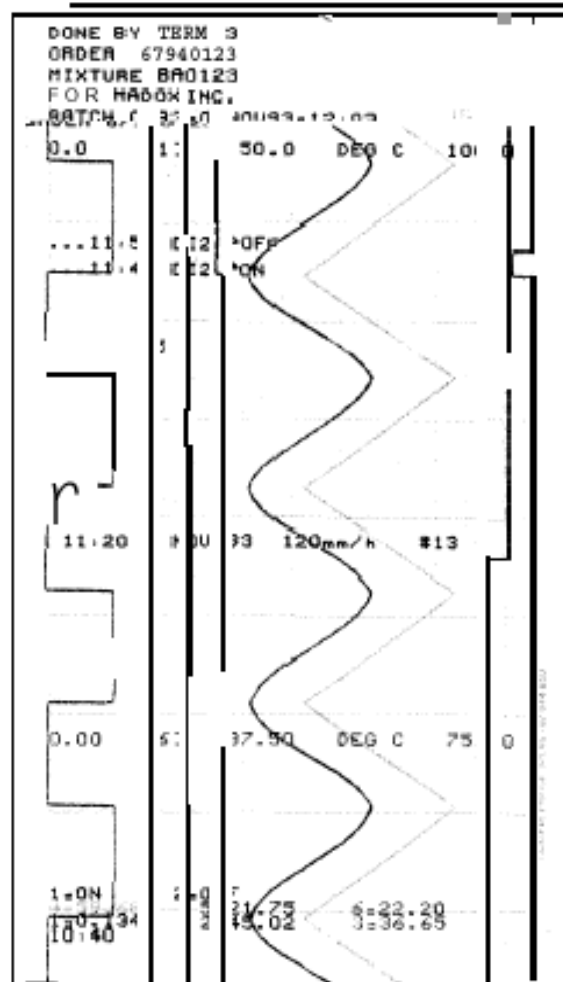
Pen



Alarms are indicated clearly.



Multipoint



DPR100 C Pen Recorder: Writing Speed

| Chart Speed | | Chart documentation |
|--------------------|-----------------|------------------------------------|
| Up to 700 mm/hr | Up to 28 in/hr | Chart fully documented |
| 700 to 1000 mm/hr | 28 to 40 in/hr | Alarm messages but no chart scales |
| 1000 to 6000 mm/hr | 40 to 240 in/hr | Traces only |

DPR100 D Multipoint Recorder: Writing Speed

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

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

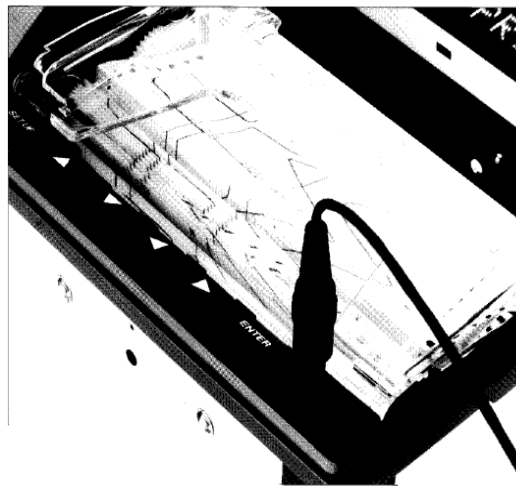
Front Configuration

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

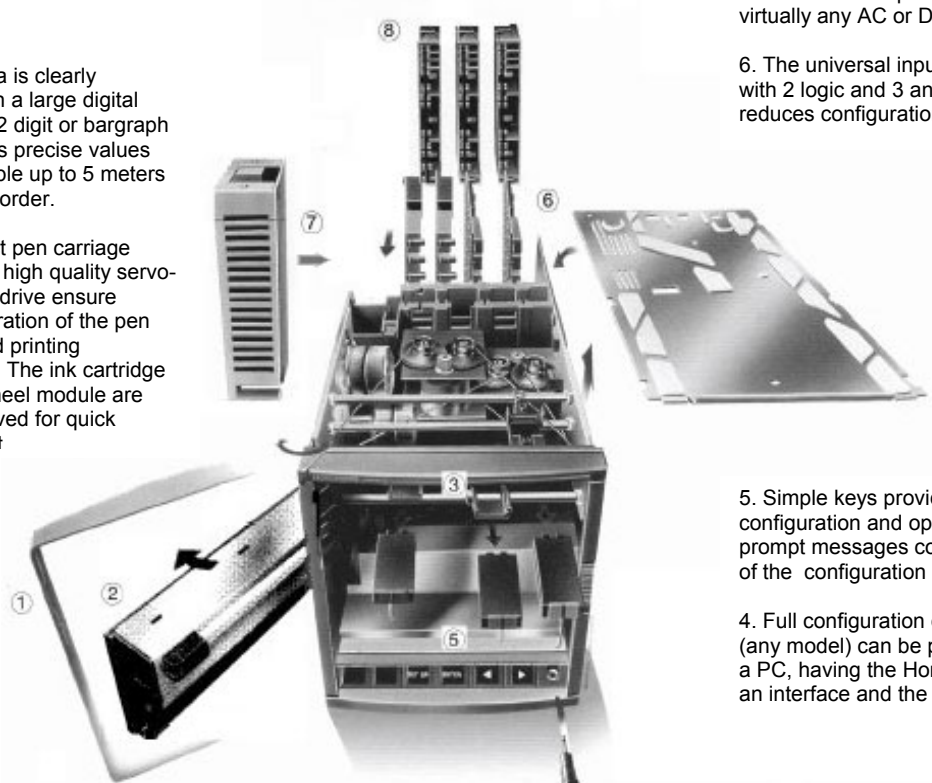
2. Process data is clearly displayed on a large digital display. A 12 digit or bargraph display gives precise values that are visible up to 5 meters from the recorder.

3. The compact pen carriage module and high quality servomotor 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

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

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

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

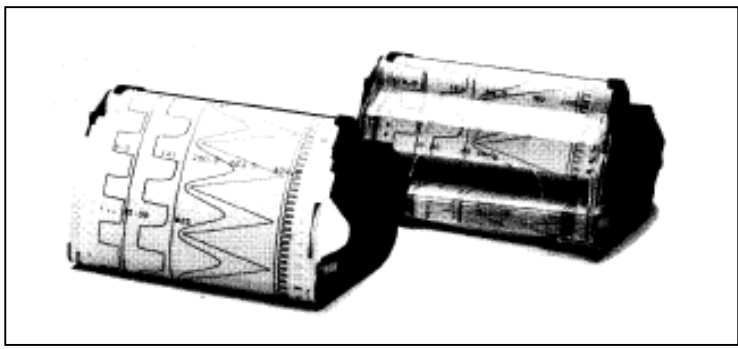
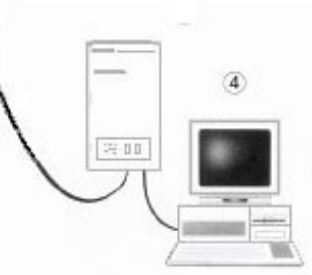


5. Simple keys provide easy configuration and operation. Interactive prompt messages confirm modification of the configuration or function.

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.

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 | | DPR100 C/D |
|---|---|-------------------|
| Technology | Microprocessor based, with non-volatile memory. Flash memory for software upgrade via the front jack. | |
| Analogue inputs DPR 100C pen recorder DPR 100D multipoint recorder | 1, 2 or 3 continuous traces. 3 or 6 channels. Inputs are scanned by solid state switches and are galvanically isolated (except for RTD sensor). | |
| Signal source | Thermocouple with individual cold junction compensation. Line resistance up to 1000 ohms T/C, mV, mA, V. RTD Pt 100 3-wire connections, lead resistance per wire 40 ohms balanced. | |
| Basic mathematics functions | Square Root extraction ($\sqrt{\quad}$) Differential = (ΔT). | |
| 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. RTD: inherent upscale, mA: inherent downscale. | |
| Scanning time (solid state relays) | Pen: 1 pen = 160 ms 2 pens = 240 ms 3 pens = 330 ms Mpt: 3 channels = 330 ms / 6 channels = 640 ms. | |
| Input impedance Stray rejection | 10 Mohm for T/C, mV inputs. >1 Mohm for volt inputs. 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 Scaling | Per input, up to 2 analogue 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. Distance between pen: 2 mm (0.08") - Offset compensation configurable. | |
| Pen offset (Pen recorder) Pen cartiage 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 1: fully adjustable per step of 1 mm/h, within limit Speed 2: fully adjustable per step of 1 mm/h, within limit Pen: 1 to 6000 mm/h (0.04 to 240"/h), Mpt: 1 to 1500 mm/h (0,04 to 60"/h). Continuous traces in color, dotted traces in configurable color with regular chart documentation (configurable). Resolution 0,12 mm. | |
| Speed setting | | |
| Stepping chart motor | | |
| Product configuration Front configuration | <ul style="list-style-type: none"> 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). | |
| PC configuration | <ul style="list-style-type: none"> 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). | |

| | |
|---|--|
| <p>Logic inputs Actions</p> | <p>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.</p> |
| <p>Alarms Set-point Function Output</p> | <p>12 alarm set-points, freely assignable to any channel and output relay 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. Contact N.C. in alarm condition (configurable in N.O.)</p> |
| <p>Alphanumeric documentation Messages Batch header Process variable Tag name</p> | <p>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. 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. 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.</p> |
| <p>Event precursor Stand-by Downloading</p> | <p>The acquisition data is stored in a buffer memory (FiFo) A stand-by message is periodically printed. 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.</p> |
| <p>Mathematics package (optional)</p> | <p>Many functions are available such as:</p> <ul style="list-style-type: none"> - Basic mathematics functions - Fo sterilization - Mass flows - Vacuum pressure - Min, max - Square root - Totalization - Energy consumption - Averages - Timers - Carbon Potential <p>The maths calculations and results are stored during power interruptions.</p> |
| <p>Digital communication (optional) Protocols PC Supervision Autodial</p> | <p>RS232 ASCII communication to PC application. RS422 or RS485 ASCII Communication output. RS422 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 modem autodial can affect data over communications as it uses the same communications port.</p> |
| <p>Event</p> | <p>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.</p> |
| <p>Current output (optional)</p> | <p>2 Current output signals 4 to 20 mA. Configurable on - Analogue Inputs, Mathematics Calculations, or Communication Signals Base Load Resistor 400 ohms.</p> |
| <p>Power supply To transmitters Power consumption</p> | <p>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)</p> |

Technical data**DPR100 C/D**

| | |
|--|--|
| Clock timer Format Power interruption Accuracy | Year, month, hour, minute can be set Battery backed (10 years time, 3 years off power) $\pm 10^{-5}$ |
| Packaging Weight Front face Depth Front window Front protection Lock Construction Chart illumination Option | Pen & Mpt: 3.5 kg (7.7lb) 144 x 144 mm (5.67" x 5.67") according to DIN 43718 245 mm /9.7" behind panel, including terminals and line protection cover Polycarbonate IP 54 (IEC 529) Latch or key (DIN 43832-N) Silicon-free Fluorescent light Rear terminal cover, portable case |
| Mounting | Panel mounting $\pm 30^\circ$ from horizontal. |
| Wiring | Rear screw terminals, Terminal modules plug onto the instrument boards. |
| Writing Pen Multipoint | 1 cartridge per pen, fiber tip, 1400 m (4593ft) of trace per color (blue, red, green) 1 print wheel, 6 colors, 250 m (820ft) of trace per color (purple, red, black, green, blue, brown) |
| Noise immunity | This product is in conformity with the protection requirements of the following European Council Directives: <ul style="list-style-type: none"> • 73/23/EEC, the Low Voltage Directive and 89/336/EEC, the EMC Directive. Conformity of this product with any other "CE Mark" Directive(s) shall not be assumed. • EMC Classification: EN 50081-2-1993 Electromagnetic Compatibility – General Emission Standard, Part 2: Industrial Environment. • EN 50082-2-1995 Electromagnetic Compatibility – General Immunity Standard, Part 2: Industrial Environment. • |
| Safety protection | Complies with EN61010-1 and UL 3121 for process control instrumentation. Pollution Degree 2. Installation Category II |
| Electrical insulation Input to input Input to ground Input to line voltage Line voltage to ground Alarm relay to ground Logic input to ground | Continuous voltage up to 280 VAC or 400 VDC (except for RTD input) Test voltage 2.1 kVDC for 1 minute Test voltage 2.1 kVDC for 1 minute Test voltage 2.1 kVDC for 1 minute Test voltage 2.1 kVdC for 1 minute Test voltage 500 VDC for 1 minute |
| Temperature Ambient Storage | 0 to 60°C (32 to 140°F) - Roll chart 0 to 50°C (32 to 120°F) – Fan fold -40 to +70°C (-40 to +160°F) |
| Humidity Roll Fan-fold | 10 to 90% RH non-condensing 15 to 80% RH non-condensing |
| Vibrations | Frequency 10 to 60 Hz, amplitude 0.07 mm; 60 to 150 Hz, acceleration 1 g |

Accuracy

DPR100 C/D

| | | | |
|--|---|---|---|
| Reference conditions Temperature Humidity Line voltage nominal Source resistance Series mode Common mode Frequency nominal | 23 °C ± 2 °C (73 °F ± 3 °F) 65 % RH ± 5 % RH ± 1 % 0 ohms 0 V 0 V ± 1 % | | |
| 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 | Parameter Temperature Supply voltage Source resistance Humidity Long-term stability Vibrations | Rated limits 0 to 50°C (32 to 120°F) Fanfold, 0 to 60°C (32 to 140°F) Chart Roll 85 to 264 V AC T/C, mV RTD 10 to 90% RH at 25°C 1.25 mm at 0 to 14 Hz 1 g at 14 to 250 Hz | Influence on accuracy 0.1% per 10°C (50°F) Cold junction 0.3°C /10°C (32.5°F / 50°F) No influence 6 micro V per 100Ω of line resistance 1000Ω mm 0.1°C per Ω in each wire balanced leads 40Ω max. 0.1 % per year |
| Extreme conditions: | | | |
| Operating Temperature Humidity | 0 to 60°C (32 to 140°F) 10 to 90% RH non-condensing | | |
| Storage Temperature Humidity | -40 to +70°C (-40 to 158°F) 5 to 95% RH non-condensing | | |

Available ranges

DPR100 C/D

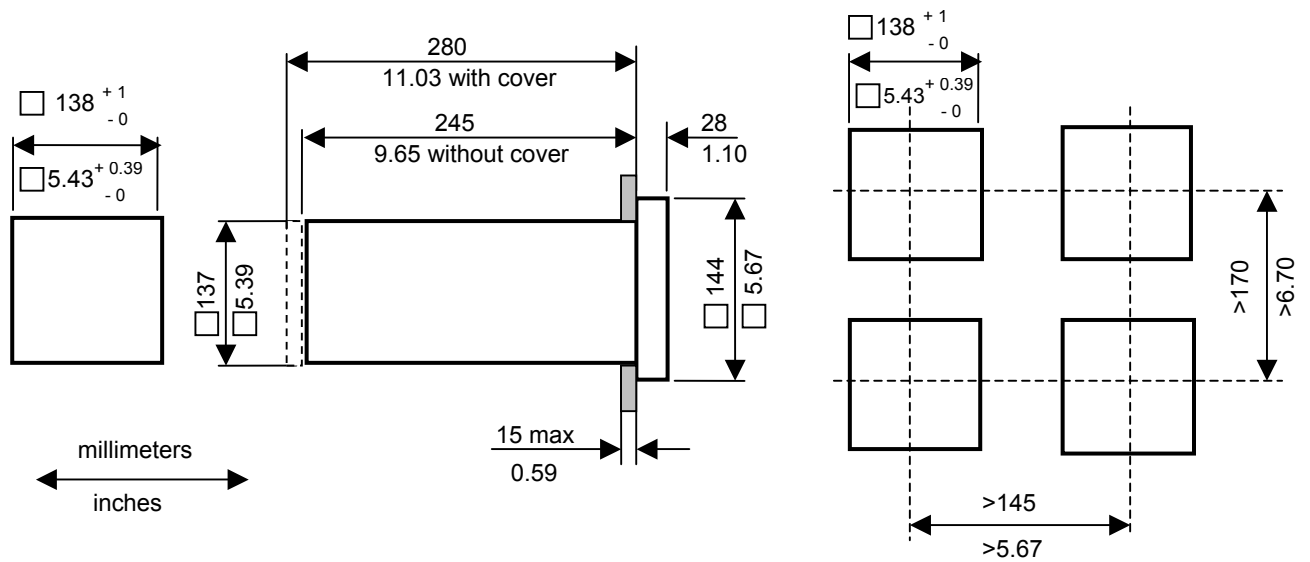
| Linear | RTD/OHMS | | Thermocouple | | | Reference Accuracy Range |
|--|--|---|---|---|---|--------------------------|
| 0/10 mV -10/10 mV 0/20 mV -20/20 mV 0/50 mV -50/50 mV 10/50 mV 0/100 mV -100/100 mV 0/500 mV -500/500 mV 0/1 V -1/1 V 0/2 V -2/2 V 0/5 V -5/5 V 1/5 V 0/10 V -10/10 V 0/20 mA * 4/20 mA * | Pt 100 ohm at 0°C ** IEC -50/150°C ** IEC -58/302°F ** ** IEC 0/100°C ** ** IEC 32/212°F ** IEC 0/200°C ** IEC 32/392°F ** IEC 0/400°C ** IEC 32/752°F ** IEC -200/500°C ** IEC -3281932°F ** Ni 50 ohm -80/320°C ** Ni 50 ohm -112/608°F * Ni 508 ohm -50/250°C ** Ni 508 ohm -58/482°F ** Cu 10 ohm -20/250°C ** Cu 10 ohm -4/482°F OHM 0/200 OHM 0/2000 | **JIS -50/150°C **JIS -58/302°F **JIS 0/100°C **JIS 32/212°F **JIS 0/200°C **JIS 32/392°F **JIS 0/400°C **JIS 32/752°F **JIS -200/500°C **JIS -3281932°F ** Ni 50 ohm -80/320°C ** Ni 50 ohm -112/608°F * Ni 508 ohm -50/250°C ** Ni 508 ohm -58/482°F ** Cu 10 ohm -20/250°C ** Cu 10 ohm -4/482°F OHM 0/200 OHM 0/2000 | J -50/150°C J -581302°F J 0/400°C J 32/752°F J -200/870°C J -328/1598°F L -50/150°C L -58/302°F L 0/400°C L 32/752°F L -200/870°C L -328/1598°F K 0/400°C K 32/752°F K 0/800°C K 32/1452°F K 0/1200°C K 32/2192°F K -200/1370°C K -328/2498°F R -20/1760°C R -4/3200°F | S 0/1600°C S 32/2912°F S -20/1760°C S -4/3200°F N 0/400°C N 32/752°F N 0/800°C N 32/1452°F N 0/1200°C N 32/2192°F N -20/1300°C N -4/2372°F T -50/150°C T -58/302°F T 0/150°C T 32/302°F T 50/150°C T 122/302°F T -200/400°C T -328/752°F | U -50/150°C U -58/302°F U 0/150°C U 32/302°F U 50/150°C U 122/302°F U -200/400°C U -328/752°F NiMo 0/1400°C NiMo 32/2552°F W-W 26 -20/2320°C W-W 26 -4/4208°F W5-W 26 -20/2320°C W5-W 26 -4/4208°F PR 20-40 0/1800°C PR 20-40 32/3272°F B 40/1820°C B 104/3308°F | |

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.

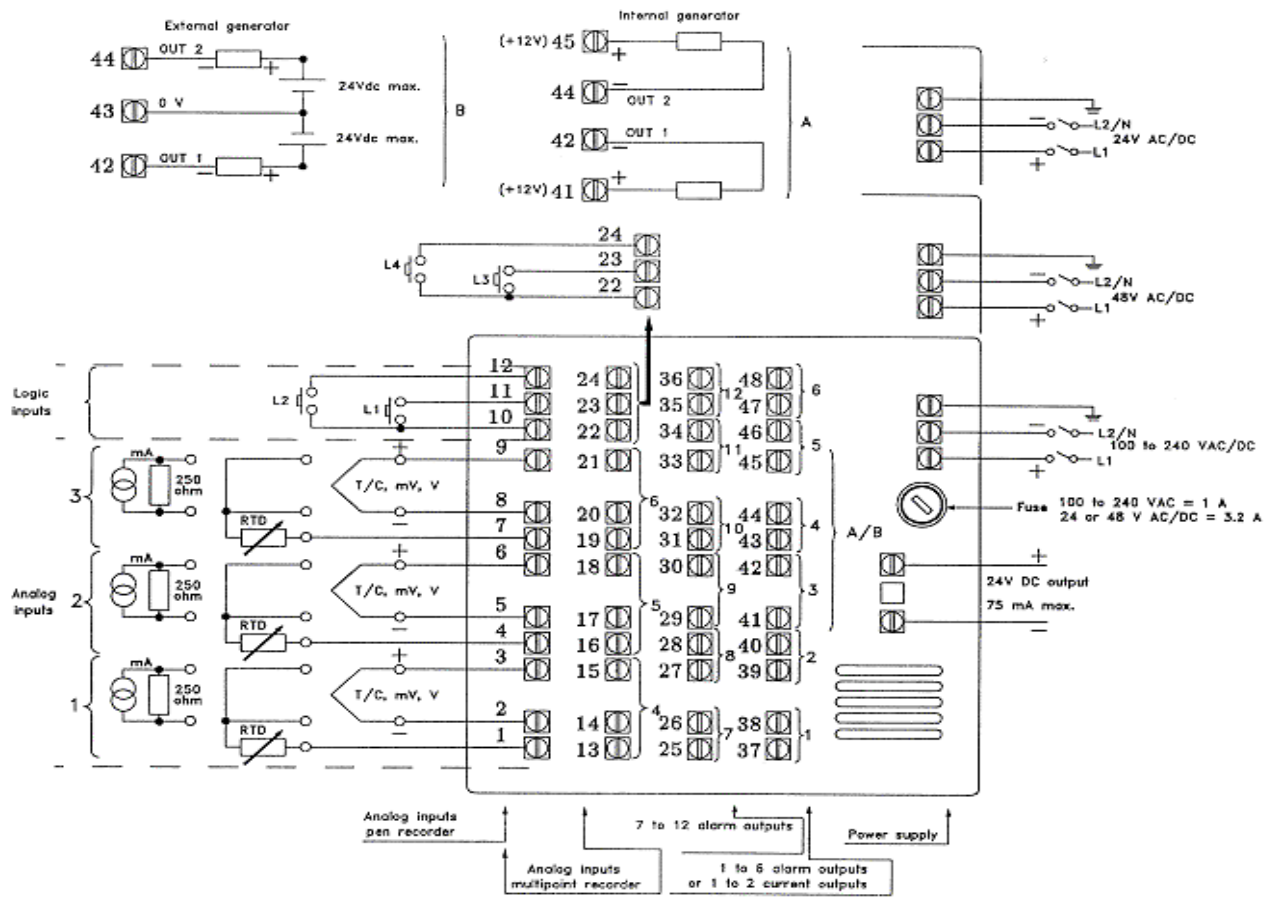
DIMENSIONS

DPR100 C/D



CONNECTIONS

DPR100 C/D



Sales and Service

For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

Warranty/Remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty work-manship. Contact your local sales office of warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. **The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.** Specifications may change without notice. The information we supply is believed to be accurate and reliable as of printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Honeywell website, it is up to the customer to determine the suitability of the product in the application.

ASIA PACIFIC

Control Products

Asia Pacific Headquarters

Phone: +(65) 6355-2828
Fax: +(65) 6445-3033

Australia

Honeywell Limited
Phone: +(61) 2-9370-4500
FAX: +(61) 2-9370-4525
Toll Free 1300-36-39-36
Toll Free Fax: 1300-36-04-70

China – PRC - Beijing

Honeywell China Inc.
Phone: +(86-10) 8458-3280
Fax: +(86-10) 8458-3102

China – PRC - Shanghai

Honeywell China Inc.
Phone: (86-21) 6237-0237
Fax: (86-21) 6237-1237

China - Hong Kong S.A.R.

Honeywell Ltd.
Phone: +(852) 2953-6412
Fax: +(852) 2953-6767

China – PRC - Chengdu

Honeywell China Inc.
Phone: +(86-28) 6786-348
Fax: +(86-28) 6787-061

China – PRC - Guangzhou

Honeywell China Inc.
Phone: +(86-20) 3879-1169
Fax: +(86-20) 3879-1269

China – PRC - Shenzhen

Honeywell China Inc.
Phone: +(86) 755-518-1226
Fax: +(86) 755-518-1221

Indonesia

Honeywell Indonesia Pte Ltd.
Phone: +(62) 21-535-8833
FAX: +(62) 21-5367 1008

India

TATA Honeywell Ltd.
Phone: +(91) 20 687 0445/0446
Fax: +(91) 20 681 2243/ 687 5992

Japan

Honeywell Inc
Phone: +(81) 3 5440 1425
Fax: +(81) 3 5440 1368

South Korea

Honeywell Korea Co Ltd
Phone: +(822) 799-6167
Fax: +(822) 792-9013

Malaysia

Honeywell Engineering
Sdn Bhd
Phone: +(60-3) 7958-4988
Fax: +(60-3) 7958-8922

New Zealand

Honeywell Limited
Phone: +(64-9) 623-5050
Fax: +(64-9) 623-5060
Toll Free (0800) 202-088

Philippines

Honeywell Systems
(Philippines) Inc.
Phone: +(63-2) 636-1661/1662
Fax: +(63-2) 638-4013

Singapore

Honeywell South East
Asia
Phone: +(65) 6355-2828
Fax: +(65) 6445-3033

Thailand

Honeywell Systems
(Thailand) Ltd.
Phone: +(662) 693-3099
FAX: +(662) 693-3085

Taiwan R.O.C.

Honeywell Taiwan Ltd.
Phone: +(886-2) 2245-1000
FAX: +(886-2) 2245-3242

EUROPE

Austria

Honeywell Austria GmbH
Phone: +43 (316)400123
FAX: +43 (316)40017

Belgium

Honeywell SA/NV
Phone: +31(0)205656999
FAX: +31(0)165330746

Bulgaria

Honeywell EOOD
Phone: +(359) 2 79 40 27
FAX: +(359) 2 79 40 90

Czech Republic

Honeywell spol. s.r.o.
Phone: +420-54324-5014
FAX: +420-54324-5011

Denmark

Honeywell A/S
Phone: +(45) 39 55 55 55
FAX: +(45) 39 55 55 58

Finland

Honeywell OY
Phone: +358 (3) 2727625
FAX: +358 (3) 2728600

France

Honeywell SA
Phone: +33 (0)1 60198075
FAX: +33 (0)1 60198201

Germany

Honeywell AG
Phone: +49 (69)8064336
FAX: +49 (69)806497336

Hungary

Honeywell Kft.
Phone: +36-1-451 4335
FAX: +36-1-451 4343

Italy

Honeywell S.p.A.
Phone: +39 02 9214 6503
FAX: +39 0292146377

The Netherlands

Honeywell B.V.
Phone: +31(0)205656999
FAX: +31(0)165330746

Norway

InstrumentTeam A/S
Phone: (47) 67 150 250

Poland

Honeywell Sp. zo.o
Phone: +48-22-6060900
FAX: +48-22-6060901

Portugal

Honeywell Portugal Lda
Phone: +351 21 424 5000
FAX: +351 21 424 50 99

Romania

Honeywell Bucharest
Phone: 40212110076
FAX: +40 (40212103375)

Commonwealth of Independent States (CIS)

Z.A.O. Honeywell
Phone: +(7 095) 796 98 36
FAX: +(7 095) 796 98 93

Slovak Republic

Honeywell s.r.o.
Phone: +421-2-58247 410
FAX: +421-2-58247 415

Spain

Honeywell S.A.
Phone: +34 (0)91313 61 00
FAX: +34 (0)91313 61 30

Sweden

Honeywell AB
Phone: +(46) 8 775 55 00
FAX: +(46) 8 775 56 00

Switzerland

Honeywell AG
Phone: +41 18552448
FAX: +(41) 1 855 24 45

Turkey

Honeywell Turkey A.S.
Phone: +90 216 575 6600
FAX: +90 216 575 6637

United Kingdom

Honeywell Control Systems
Ltd
Phone: +(44) 1698 481730
FAX: +(44) 1698 481276

MIDDLE EAST

Abu Dhabi U A E

Middle East Headquarters
Honeywell Middle East Ltd
Phone: +971 2 4041220
FAX: +971 2 4432536

Sultanate of Oman

Honeywell & Co Oman LLC
Phone: +968 701397
FAX: +968 787351

Egypt

Honeywell Egypt Ltd
Phone: +202 4514460 /1/ 2/
3/ 4/ 5/ 6
FAX : +2024514467

Saudia Arabia

Honeywell Turki Arabia
Limited
Phone: +966-3-341-0140
Fax: +966-3-341-0216

Kuwait

Honeywell Kuwait KSC
Phone: +965 2421327

AFRICA

Mediterranean & African Distributors

Honeywell SpA
Phone: +39 (02) 250 10 604
FAX: +39 (02) 250 10 659

South Africa (Republic of)

Honeywell Southern Africa
Honeywell S.A. Pty. Ltd
Phone: +27 11 6958000
FAX +27 118051504

NORTH AMERICA

Canada

Honeywell LTD
Phone: 1-800-737-3360
FAX: 1-800-565-4130

USA

Honeywell
Control Products,
International Headquarters
Phone: 1-800-537-6945
1-815-235-6847
FAX: 1-815-235-6545
E-mail: info.sc@honeywell.com

LATIN AMERICA

Argentina

Honeywell S.A.I.C.
Phone: +(54-11) 4383-3637
FAX: +(54-11) 4325-6470

Brazil

Honeywell do Brasil & Cia
Phone: +(55-11) 7266-1900
FAX: +(55-11) 7266-1905

Chile

Honeywell Chile, S.A.
Phone: +(56-2) 233-0688
FAX: +(56-2) 231-6679

Columbia

Honeywell Columbia, S.A.
Phone: +(57-1) 623-3239/3051
FAX: +(57-1) 623-3395

Ecuador

Honeywell S.A.
Phone: +(593-2) 981-560/1
FAX: +(593-2) 981-562

Mexico

Honeywell S.A. de C.V.
Phone: +(52) 55 5259-1966
FAX: +(52) 55 5570-2985

Peru

Honeywell Peru
Phone: +(511) 445-2136/1891
FAX: +(511) 348-3552

Puerto Rico

Honeywell Inc.
Phone: +(809) 792-7075
FAX: +(809) 792-0053

Trinidad

Honeywell Inc
Phone: +(868) 624-3964
FAX: +(868) 624-3969

Venezuela

Honeywell CA
Phone: +(58-2) 238-0211
FAX: +(58-2) 238-3391



Tlf: 67150 250 Faks: 67 150 251

Mail: post@instrumentteam.no

Web: www.instrumentteam.no