

DPR 250

250 MM DIGITAL STRIP CHART RECORDER

43-DR-03-09 06/2003

PRODUCT SPECIFICATION SHEET

OVERVIEW

The DPR250 recorder offers the best price/performance of any 250mm (10"inch) wide chart recorder in the market today.

The recorder is able to monitor up to 64 analogue inputs or any combination of analogue inputs, digital inputs and outputs that total up to 80.

It produces clear, fully documented charts at any speed, and in different formats, providing the best, most flexible presentation of the process data.

The large, bright display, with fluorescent chart illumination, provides easy viewing of the data and chart. The flexible product configuration in 5 languages makes it easy to set up and use.

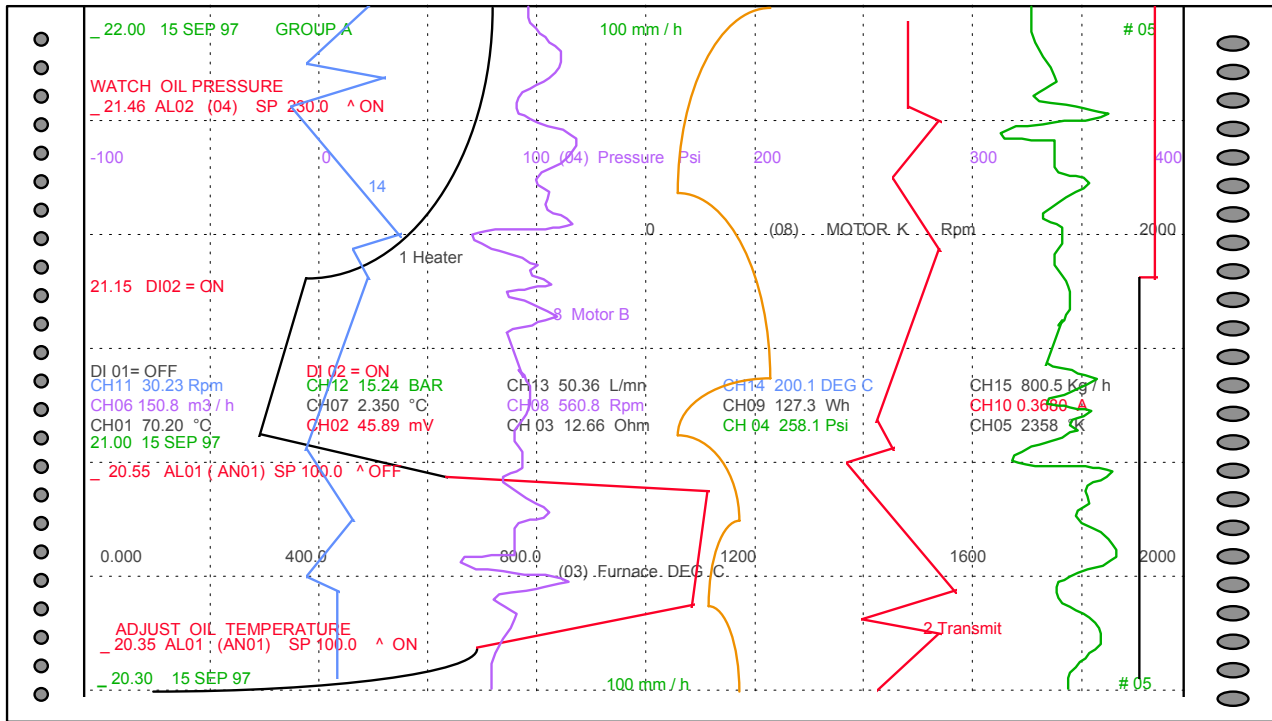
The DPR250 is especially suited to match the needs of chemical, pharmaceutical, power generation, metals processing, environmental monitoring, and other applications where the best chart resolution is required.



MAIN FEATURES

- 250 mm (10 inch) chart width.
- 0.05% accuracy full scale on a wide choice of inputs and ranges.
- Each input span is adjustable within the selected range, with up to 2 ranges per input.
- Universal (T/C, RTD, mV, mA, V), or linear input board (mV, mA, V).
- Fast scanning of inputs (20/sec.)
- Fluorescent display of 2 row of 16 digits, adjustable brightness.
- Roll or fan fold chart capability using the same cassette.
Fully documented chart with trace color assignment, thin or thick trace, alarm in red tagging, zooming, zoning, trend, tabular, messages.
- Channel groups available.
- I/O capability : up to 64 analogue inputs, up to 48 output relays, up to 48 digital inputs, up to 8 retransmitted signals.
- Advanced math package
- Full configurability through the front keys, front PC jack or communication link.
- 2 chart speeds fully configurable from 1 to 5000 mm/h (0.04 to 200 inch/hr).
- Up to 64 messages of 64 characters
- Firmware upgradable by PC (Flash memory).
- Input calibration traceability per channel, or per group of channels.
- Up to 2 custom-input characterizations available.
- Up to 64 alarm set points freely assignable on analogue inputs, maths, communication.
- Up to 48 internal output relays assignable on analogue inputs, maths, events, logic inputs.
- Configurable Periodic chart documentation.
- Periodic report.
- Universal power supply : 100 to 240 Vac/dc.
- PC application software (LPCS) for trending, monitoring, archiving, configuration.
- Up to 8 retransmitted signals.
- Universal communication: ASCII in RS232, 422/485. MODBUS RTU in RS422/485. ETHERNET/MODBUS RTU Interface.
- Metal door/case, IP55 protection.

Trend printing mode



The trend printing mode offers a large flexibility of documentation which includes :

Date and Time, Alarm reporting with : Time, Alarm SP, Channel #, Set Point value, Alarm, Chart certification, Chart Speed with engineering unit , User defined message, Range subdivision, Recorder identification, Red on alarm, Chart range, Channel reference with tag name (Configurable), Thick channel trace, Process value, Channel tag name, Zone format, Channel reference, Engineering Unit, Tabular print out.

Tabular printing mode

DI01= OFF	DI02 = ON	CH08 560.0 Rpm	MOTOR B	CH09 127.3 Wh	POWER				
CH07 2350 °C	BURNER	CH05 2358 °K	FURNACE	CH06 150.8 M3/h	FLOW				
CH04 258.1 PSI	PRESSURE	CH02 45.90 mV	TRANSMIT	CH03 12.70 OHM	COIL				
CH01 70.20 °C	HEATER								
23.50	15 SEP 97								
DI01= OFF	DI02 = OFF	CH08 560.0 Rpm	MOTOR B	CH09 127.3 Wh	POWER				
CH07 2350 °C	BURNER	CH05 2358 °K	FURNACE	CH06 150.8 M3/h	FLOW				
CH04 258.1 PSI	PRESSURE	CH02 45.90 mV	TRANSMIT	CH03 12.70 OHM	COIL				
CH01 70.20 °C	HEATER								
23.40	15 SEP 97								
DI01= OFF	DI02 = ON	CH08 560.0 Rpm	MOTOR B	CH09 127.3 Wh	POWER				
CH07 2350 °C	BURNER	CH05 2358 °K	FURNACE	CH06 150.8 M3/h	FLOW				
CH04 258.1 PSI	PRESSURE	CH02 45.90 mV	TRANSMIT	CH03 12.70 OHM	COIL				
CH01 70.20 °C	HEATER								
23.30	15 SEP 97								

- **Easy to install ... easy to use ...**

easy to maintain : The DPR250 with its modular design and rugged construction, simplifies maintenance. Many parts are common with the DPR180 thus reducing spare parts inventory. It's operator - friendly configuration keys, the sophisticated display, easy product configuration and customized charts insure accurate monitoring and recording of the process.

- **Easy access :** the access to the chart, and the ink cartridge is very easy. The simple, modular construction of plug-in modules, along with the low cost and extra long life of consumables, further reduces the maintenance cost.

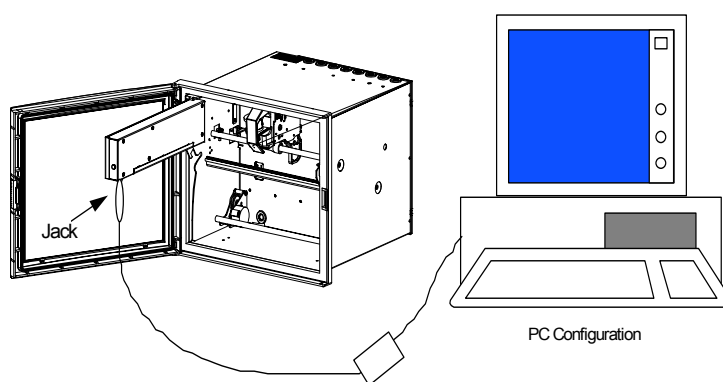
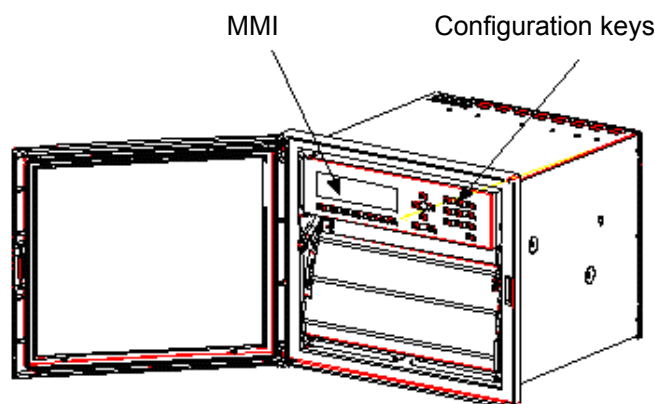
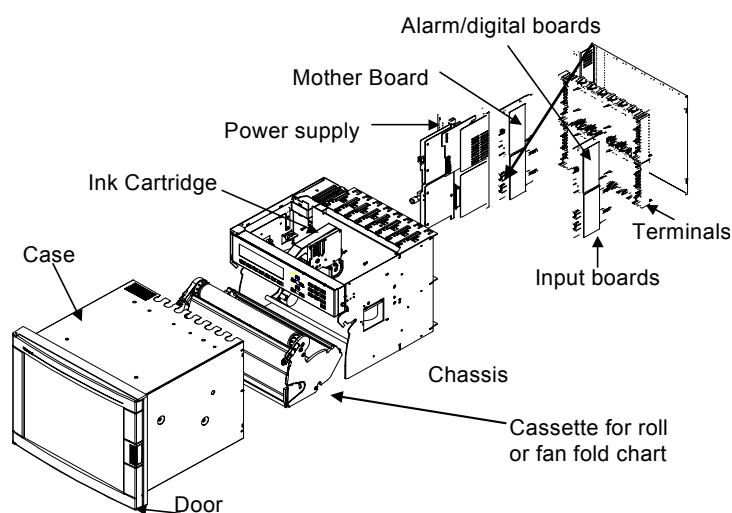
- **Universal power supply module :** the universal switching mode power supply simplifies installation of the recorder by accepting voltages from 100 to 240 Vac/dc, 50/60 Hz.

- **Local configuration :** A user friendly program with local language prompts (English, French, German, Italian or Spanish) permits a full configuration of the recorder using the front keys. A multilevel password protects against unauthorized changes of product configuration.

- **Digital Display :** The Vacuum fluorescent dot matrix display, is 2 lines of 16 digits, 8.5 mm high (0.33"). This allows for flexible displaying and provides clear operator information. Display illumination is configurable to allow for improved viewing based on customer requirements.

- **Chart illumination :** The chart illumination makes traces and current printed values immediately visible, even from a distance and in any ambient light condition.

- **Two paper types :** Either chart roll or fan fold paper can be installed into the common chart cassette. The large capacity cassette holds 35 meters (115ft) of chart paper, reducing the maintenance time required between chart changes. Uses the same charts and ink cartridge as the DPR3000, thus providing for common consumables.



- **PC configuration :** By using the front communication jack, the recorder can be configured from a personal computer, using an optional PC interface module. In addition to configuration, the PC interface provides the ability to upload, download, modify, store the recorder configuration and initiates service diagnostics as well as being able to upgrade the recorders product firmware. The PC Configuration software allows the creation of a custom characterization of up to 50 points for special ranges.

DPR 250 FUNCTIONAL SPECIFICATIONS

Technical data

DPR250

Technology		Microprocessor-based (32 bits), with non volatile memory. Flash memory for product software upgrade, or specials, via the front jack.
Analogue inputs	<i>Number of inputs</i>	From 4 up to 64 in groups of 4. Note. Above 32 inputs could limit the total number of alarm outputs or digital inputs.
	<i>Input boards</i>	2 types : 4 linear inputs per board : mV, V, mA 4 universal inputs per board : mV, V, mA, T/C, RTD, Ohms
	<i>Signal source</i>	Thermocouple with cold junction compensation, or with remote compensation temperature configurable between 0 to 80°C (32 to 176°F) Line resistance up to 1000 Ohms for T/C, mV, mA, V RTD Pt100 Ohms, 3 wire connections, 40 Ohms balanced max.
	<i>Basic math functions</i>	Square root extraction or channel differential are standard.
	<i>Filter</i>	Digital filter configurable per input from 0 to 99 sec.
	<i>Field calibration</i>	Channel calibration 0 to 100% span (or calibration of a group of identical channels) can be made to certify sensor loop.
	<i>Burnout</i>	T/C, mV, V (except following ranges) configurable to upscale, downscale or none Volt : -500, 0, 500 mV ; -1, 0, 1V ; -2, 0, 2V ; -5, 0, 5V ; 0, 10V ; -10, 0, 10V : Inherent to Zero volt. RTD : inherent upscale ; mA : inherent downscale.
	<i>Scanning time</i>	2 channels = 105 msec, 4 ch = 210 msec, 8 ch = 420 msec, 12 ch = 630 msec, 16 ch = 840 msec, 20 ch = 1 sec, 24 ch = 1.2 sec, 32 ch = 1.6 sec, 64 ch = 3.3 sec.
	<i>Input impedance</i>	10 MOhms for T/C and mV inputs; > 1 MOhm for V input
	<i>Stray rejection</i>	Series mode > 60 dB. Common mode at 120 Vac > 130 dB
Display	<i>Fluorescent display</i>	2 rows of 16 digits, 8.5 mm (.33 inch) high, matrix display. Can display 1 or 2 PV values (5 digits) per line, engineering units (5 digits), alarm status, tag name, math, speed, event messages etc.
	<i>Brightness</i>	The display brightness is configurable
Record	<i>Chart</i>	250 mm (10") width
	<i>Traces</i>	Up to 32 traces, configurable in 6 colors, thin or thick traces, plus digital traces
	<i>Trace assignment</i>	Traces are configurable on analogue inputs, math, communication or digital inputs
	<i>Scaling</i>	Per input, up to 2 analogue scales can be configured to be printed on the chart, with engineering units, channel reference and tag name. Each input can be configured independently. The scale can be linear, with up to 10 sub-divisions
	<i>Print mode</i>	Trend : Up to 32 traces, with periodic chart documentation configurable in time, from 1 minute to 24 hours with date, time, scales, digital PV print-out over traces or on blank paper, with channel reference, digital traces, alarm messages and customer message. Tabular : Tabular print-out configurable in time from 1 to 1440 minutes with channel number, tag name, digital PV value, engineering unit, alarm status.
	<i>Zoning</i>	Each input can be scaled between 0 to 100% of the chart (minimum zone = 20%).
	<i>Printing group</i>	Up to 2 groups of channels can be defined, with printing selection by : Alarm, logic inputs or logic triggers
	<i>Pen carriage speed</i>	1.95 second full scale
Chart length		Roll or fan fold chart 35 meters (115 ft)
Chart speed		1 or 2 chart speed, fully configurable, selected by : Logic input, alarm communication, front key.
	<i>Speed setting</i>	Speeds 1 and 2 are configurable from 1 (0.04") up to 5000 mm/hr (200")
	<i>Resolution</i>	Chart resolution is 0.19 mm (0.0075")

Product configuration	<i>Access</i>	The configuration can be accessed using front keys, PC configurator, or ASCII communication with LPCS software.
	<i>Protection</i>	2 password levels protect the unit configuration from unauthorized access. Level 1 = limited access, Level 2 = full protection.
	<i>Front keyboard</i>	Configurable and alphanumeric keys allow the operator to change the recorder operation
	<i>PC configuration</i>	Through the front jack, the unit can be configured from a PC using a Honeywell PC interface. This provides the facility to copy the product configuration, modify, store, download or upload the configuration, access service diagnostics, and also to upgrade the recorder firmware.
Logic inputs (optional)	<i>Number of inputs</i>	Up to 48 input contacts, organized in groups of 6 contacts per card Dry contacts (5 mA - 5 Vdc)
	<i>Actions</i>	change speed 1 to speed 2, tab interval 1 to 2, digital print-out, print message, print inhibit, event traces, print math calculations. Change range, start/stop math operations. Change print group, actuate a relay output. Up to 48 event traces are configurable in color and position from 0 to 100% of the chart
Alarms	<i>Set points</i>	Up to 64 set points, freely assignable to analogue inputs, math or communication.
	<i>Alarm type</i>	High, low, change rate low, change rate high, change rate high-low or deviation with configurable alarm occurrence.
	<i>Actions</i>	Can trigger a message, print channel in red in alarm, print in alarm, change the range, change the speed/tabular, print digital PV's Start/stop the math, select the print group, actuate a relay output
	<i>Relay output</i> (optional)	Up to 48 internal relays : 2 A, 250 Vac on resistive load. 1 SPST contact output, normally closed contact (NC), configurable to normally open (NO). Configurable alarm relay acknowledgement.
Alarm event		The recorder can be configured to display events such as : 1 alarm, 1 channel in burnout, paper out, battery fail, communication interrupted.
Alphanumeric documentation	<i>Messages</i>	Up to 64 freely assignable messages of 64 characters each Can be printed with or without date and time over the traces, by alarms, logic inputs, communication, when alarm is ON, OFF or ON/OFF.
	<i>Process Values</i>	Periodic digital print-out at time intervals configurable from 1 minute to 24 hours or through alarms, digital inputs, communication.
	<i>Tag name</i>	Each channel can have up to an 8 character name
	<i>Chart scales</i>	each can be configured from 0 to 9 subdivisions
	<i>Periodic reports</i>	startup time and period configurable Min, Max, average of selected channels or (math computation) are printed in alphanumeric. Report size max. = 20 lines.
User-Defined Actuation		Up to 50 breakpoints can be used to define a custom range/actuation. Up to 2 ranges can be defined using the PC Configurator. Polynomial characterization available as special.
Mathematic package (optional)		Many functions are available such as : Basic math, SqRt, Fo, totalization, mass flows, energy consumption, averages, timers, min., max., carbon potential, alarm/logic pulse totalization, RH. The calculations are stored during power interruption.
	<i>Actions</i>	The results can be recorded as a trace, a tabular print-out, a periodic report, or to the communication link, or used to generate a current output signal
Communication (optional)	<i>Protocols</i>	ASCII in RS232, 422/485. MODBUS RTU in RS422/485. ETHERNET/MODBUS RTU Interface, Interface configured with standard IP address and is utilized with 3 rd party software that provides TCP/IP modbus driver and OPC capability.
	<i>PC supervision</i>	In ASCII communication, an application software package, LPCS, provides the following functions : Monitor the PV's, alarms, events status Archiving of data in ASCII files Send a message to the recorder Configure the recorder
Retransmitting signals (optional)	<i>Current output</i>	Up to 8 signals, 4 to 20 mA dc, can be generated by the recorder. (Organized in blocks of 4 output signals). Max. Line impedance = 400 Ohms These can be configured for : analogue traces, math calculations, PV's from the communication link. The zero and span are configurable.

PCMCIA (optional)	<i>Actions</i>	Archiving of PV traces, alarms and events with file names. File size is 24Mbytes max., Logging time selectable from 1 sec up to 30 minutes.	
	<i>PC Analysis</i>	The SDA (Software Data Analysis) or TrendManager Pro provides an easy and powerful way to analyse trend, alarm and event files as well as to export the spreadsheet format (CSV).	
Clock timer	<i>Format</i>	Year, month, hour, minute can be set	
	<i>Power interruption</i>	Battery backed (10 years time, 3 years power off)	
	<i>Accuracy</i>	10 ⁻⁵ at reference conditions	
Power supply		100 to 240 Vac/dc, (24 Vac/dc on request). Power consumption = 100 VA max	
Packaging	<i>Weight</i>	22 Kg max. (48 lbs)	
	<i>Front bezel</i>	310 x 387 mm (12.2 x 15.24 inches)	
	<i>Panel cutout</i>	278 x 348 mm (10.9 x 13.70 inches)	
	<i>Depth</i>	320 mm (12.6 inch) including the rear cover	
	<i>Front protection</i>	IP55	
	<i>Lock</i>	Latch, optional key DIN 43832-N	
	<i>Door</i>	Die cast aluminum : Dark gray or black (optional), door opens to 180°	
	<i>Mounting</i>	Panel mounting ± 30° from the horizontal	
	<i>Wiring</i>	Screw terminals : Terminal blocks plug on to the boards at the back of the recorder	
Noise immunity		<p>This product is in conformity with the protection requirements of the following European Council Directives:</p> <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	<i>Input/input</i>	Continuous operation at 280 Vac or 400 Vdc (except for RTD)	
	<i>Input/gnd; alarm</i>	Test voltage 2.1 kV dc for 1 minute	
	<i>relay/gnd</i>	Test voltage 3.25 kV dc for 1 minute	
	<i>Input/line;</i>	Test voltage 3.25 kV dc for 1 minute	
	<i>Line/gnd;</i>	Test voltage 3.25 kV dc for 1 minute	
	<i>Logic/gnd</i>	Test voltage 3.25 kV dc for 1 minute	
Temperature	<i>Ambient</i>	0 to 50°C (32 to 132°F), 0 to 40°C (32 to 104°F) for fan fold paper	
	<i>Storage</i>	-40 to 70°C (-40 to 160°F)	
Humidity	<i>Roll chart</i>	10 to 90% RH non-condensing	
	<i>Fan fold</i>	15 to 80% RH non-condensing	
Vibrations		Frequency 10 to 60 Hz, amplitude 0.07 mm, 60 to 150 Hz acceleration 1 g	
Accuracy	<i>Reference conditions</i>	Temperature = 23°C ± 2°C (73°F ± 3°F) Humidity = 65% RH ± 5% Line voltage = Nominal ± 1% Source resistance = 0 Ohm Series mode and common mode = 0 V Frequency = Nominal ± 1%	
	<i>Accuracy</i>	Field calibration accuracy 0.05% of the selected range (IEC 873), Chart resolution : 0.18 mm (0.007"). Cold junction accuracy : ± 0.5°C (32.9°F)	
Rated limits and associated drifts	Parameters	Rated limits	Influence on accuracy
	<i>Temperature</i>	0 to 50°C (32 to 120°F)	0.15% per 10°C (50°F) of change Cold junction 0.3°C/10°C (32.5°F/50°F)
	<i>Supply voltage</i>	85 to 250 V	No influence
	<i>Source resistance</i>	T/C, mV	6 µV per 400 Ohms of line resistance max. = 1000 Ohms
		RTD	0.1°C per Ohm in each wire balanced eads 40 Ohms max. (From 0 to 400°C (32 to 752°F))
	<i>Humidity</i>	10 to 90% RH at 25°C	0.1% max.
	<i>Long-term stability</i>		0.1% per year

Available ranges

DPR250

Linear	RTD/Ohms		Thermocouples			
mV 0 to 10 mV -10, 0, +10 mV 0, 20 mV -20, 0, +20 mV 0, 50 mV -50, 0, +50mV 10, 50 mV 0, 100 mV -100, 0, +100mV 0, 500 mV -500, 0, +500mV	Pt 100 at 0°C -50, 0, 150°C -58, 0, 302°F 0, 100°C** 32, 212°F** 0, 200°C 32, 392°F 0, 400°C 32, 752°F -200, 0, 800°C -328, 0, 1472°F	J I S -50, 0, 150°C -58, 0, 302°F 0, 100°C** 32, 212°F** 0, 200°C 32, 392°F 0, 400°C 32, 752°F -200, 0, 500°C -328, 0, 932°F	J -50, 0, 150°C J -58, 0, 302°F J 0, 400°C J 32, 752°F J -200, 0, 870°C J -328, 0, 1598°F L -50, 0, 150°C L -58, 0, 302°F L 0, 400°C L 32, 752°F L -200, 0, 870°C L -328, 0, 1598°F	S 0, 1600°C S 32, 2912°F S -20, 0, 1760°C S -4, 0, 3200°F N 0, 400°C N 32, 752°F N 0, 800°C N 32, 1472°F N 0, 1200°C N 32, 2192°F N -200, 0, 1300°C N -328, 0, 2372°F	U -50, 0, 150°C U -58, 0, 302°F U 0, 150°C U 32, 302°F U 50, 150°C U 122, 302°F U -200, 0, 400°C U -328, 0, 752°F NiMo 0, 1400°C NiMo 32, 2552°F MoCo 0, 1400°C MoCo 32, 2552°F	
Volt 0, 1 V 0, 2 V -2, 0, +2V 0, 5 V -5, 0, +5 V 1,5 V 0, 10 V -10, 0, +10 V	Ni 50 ohms -80, 0, 320°C -112, 0, 608°F	Ref. range 0, 320°C 32, 608°F	K 0, 400°C K 32, 752°F K 0, 800°C K 32, 1472°F K 0, 1200°C K 32, 2192°F K -200, 0, 1370°C K -328, 0, 2498°F	T -50, 0, 150°C T -58, 0, 302°F T 0, 150°C T 32, 302°F T 50, 150°C T 122, 302°F T -200, 0, 400°C T -328, 0, 752°F	W-W26 -20, 0, 2320°C -4, 0, 4208°F	Ref. range 400, 2300°C 750, 4200°F
	Ni 508 ohms -80, 0, 150°C -112, 0, 302°F				W5-W26 -20, 0, 2320°C -4, 0, 4208°F	Ref. range 400, 2300°C 750, 4200°F
	Cu 10 Ohms -20, 0, 250°C** -4, 0, 482°F		R -20, 0, 1760°C R -4, 0, 3200°F		PR 20-40 0, 1800°C 32, 3272°F	Ref. range 600, 1800°C 1110, 3300°F
mA 0, 20 mA 4, 20 mA	Ohms 0, 200 ohms 0, 2000 ohms				B 40, 1820°C B 104, 3308°F	Ref. range 400, 1820°C 752, 3308°F

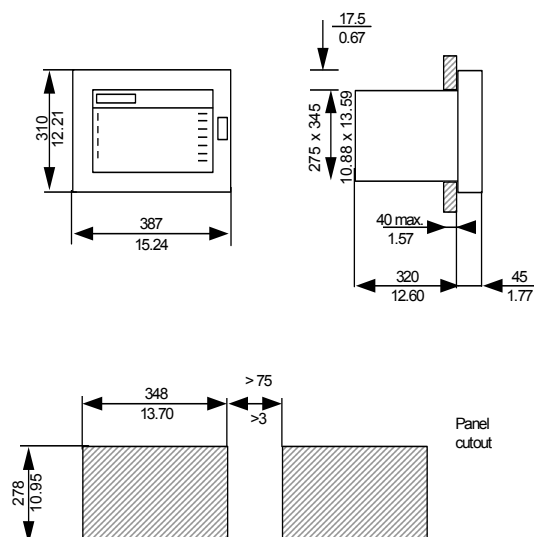
Notes :

1. Ranges with ** have an accuracy of 0.25%.
2. For non linear temperature transmitter, the transmitter range MUST be identical to the input range of the recorder.
3. The mA inputs has to be connected on a 250 Ohms input across the input terminals.
4. 0.5% per 10°C on Cu 10 ohms; 0.3% per 10°C on Pt100< 200°C
5. The Reference range is the same as the stated range unless noted

Dimensions

DPR250

Millimeters/Inches



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
Honeywell A/S
Phone: (45) 39 55 55 55

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