

DPR 250 – 250 mm Multipoint Digital Strip Chart Recorder

High performance recording capability in a 250 mm chart size

The DPR 250 Recorder offers the best price/performance in the market today for 250 mm chart recording. This recorder is able to monitor up to 64 analog inputs or a combination of analog or digital inputs or outputs. It produces clear, fully documented charts, at any speed, and provides an attractive presentation of the process data. Its large, bright display and fluorescent chart illumination provides clear viewing of displayed and printed data.

The DPR 250 is especially tailored to the needs of metal processing, pharmaceuticals, fine chemicals, food applications, environmental monitoring, power generation, and related process recording requirements.

Rugged and reliable

The DPR 250 uses field-proven components and assemblies. Its modular design reduces spare parts inventory, simplifies maintenance, and significantly increases the recorder's ruggedness and reliability.

Easy to configure and operate

The recorder is fully configurable through the keys on the faceplate, or through a PC (and Honeywell PC software) connected to the unit via the front jack or the communication card slot. As a standard feature, the DPR 250 can be configured in any of five languages.

Outstanding display visibility

The large display (two rows of 16 digits) is clearly visible from a considerable distance and the display brightness can be adjusted to match your needs.

Fully documented charts

The charts are fully documented with trace color assignment, alarm in red, tagging, zoning, zooming, trend or tabular printouts, and messages, producing solid pen type traces at virtually any chart speed. The functionality of the recorder allows easy customization of the chart.

Low-cost consumables

The longer length chart (35 m/115 ft) helps reduce the maintenance costs of replacing charts. The chart cassette can use either fan-fold or roll charts, which allows charts to be switched as requirements change. The DPR 250

uses the same low cost ink cartridge as the DPR 3000 and DPR 180, thus eliminating the need for a different ink cartridge assembly. The Honeywell charts are in conformance with the DIN standard.

Operation in harsh environments

With its galvanized steel case and chassis, reliable printing mechanism, IP55 front protection, and full conformity with the CE directives, the DPR 250 will provide complete satisfactory operation in harsh industrial environments, in the same way as any of the other Honeywell recorders.

Complete math functions

A powerful math function package is available to enhance your data acquisition and recording needs, with the results traced, printed or retransmitted. Typical math functions include totalization, mass flow calculation, timers, counters, averages, min, max, and more.

A wide choice of options

The DPR 250 is available with many options, including logic inputs, alarm relay outputs, 4 to 20 mA current outputs, universal communication (ASCII, Modbus), and PCMCIA data storage.

Worldwide services

The Honeywell worldwide service organization is recognized as the best in the process control industry and includes fully trained service technicians, toll-free technical assistance, and spare parts availability.

The DPR 250 Recorder and hundreds of other Honeywell industrial devices can be purchased on line through the Honeywell Industrial Store on our Web site at <http://www.iac.honeywell.com>.

For more information on this or other Honeywell products and services, please contact your local Honeywell representative, visit our Web site, or call 1-800-288-7491.

Honeywell provides a complete line of line of temperature sensors including thermocouples, RTDs, and non-contact sensors that are compatible with the DPR 250 Digital Strip Chart Recorder and other industrial control products.

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Condensed Specifications

Technology	32 bit μ P, flash memory, solid state input relays
Universal Inputs	4 to 64 analog inputs: all major thermocouples and RTDs, mV, Volts and mA signals, with a wide choice of ranges, the spans being adjustable within the ranges
	Typical scan time: 1 s. for 20 inputs
Accuracy	0.05% of the selected range (field calibration)
Universal Power Supply	100 to 230 VAC/DC +10-15%
Chart Cassette	Roll or fan fold (35 meters, 115 ft) on the same cassette
Chart Speed	Trend mode: up to 5000 mm/h (200"/h). Tabular mode: print-out time configurable from 1 to 1440 minutes
Logic Inputs (optional)	6 to 48 logic inputs, which can trigger: change speed, digital print out, message, math result, range, relay output, etc.
Alarm Relay (optional)	Up to 64 alarm set points, and up to 48 relays
Communication (optional)	RS232: ASCII - RS422/485: ASCII, MODBUS RTU PC supervision software: monitoring, archiving, messaging (LPCS)
Retransmission (optional)	Up to 8, 4 to 20 mA outputs: retransmission of inputs, math result, or PVs from communications
Math Functions (optional)	Sq Rt and channel difference: standard Basic arithmetics, Fo, totalization, mass flows, energy consumption, averages, timers min., max., carbon potential, RH, etc.
Periodic Reports	On chart or exported via communication
Data Storage (optional)	PCMCIA card, Type II - up to 75 Mb of local data storage. Files are compatible with Honeywell SDA analysis software.
Approvals	CE, CSA/NRTL/C

Product Dimensions

Front Face	310 x 387 mm (12.2"h x 15.24"w), cut out 278 x 348 mm (10.94"h x 13.70") IP55 protection
Depth	320 mm (12.6") including the rear cover
Weight	22 Kg max. (48 lbs)
Mounting	Panel mounting, $\pm 30^\circ$ from the horizontal
Temperature Limits	0 to 50°C (32 to 120°F)
Humidity	10 to 90% RH at 25°C (77°F)
Vibration	Frequency 10 to 60 Hz, amplitude 0.07 mm, 60 to 150 Hz acceleration 1g

Representative :



Tlf: 67150 250 Faks: 67 150 251

Mail: post@instrumentteam.no

Web: www.instrumentteam.no

Honeywell

Industrial Automation and Control

Honeywell Inc.
<http://www.iac.honeywell.com>

U.S.A.: Honeywell Industrial Automation and Control, 16404 North Black Canyon Hwy., Phoenix, AZ 85053
Canada: The Honeywell Centre, 155 Gordon Baker Rd., North York, Ontario M2H 3N7
Latin America: Honeywell Inc., 480 Sawgrass Corporate Parkway, Suite 200, Sunrise, Florida 33325
Japan: Industrial Operations Tokyo, 4-28-1 Nishi-Rokugo Ohtu-ku, Tokyo 144, Japan
Asia: Honeywell Asia Pacific Inc., Room 3213-3225, Sun Hung Kai Centre, No. 30 Harbour Road, Wanchai, Hong Kong
Pacific Division: Honeywell Pty Ltd., 5 Thomas Holt Drive, North Ryde NSW Australia 2113
Northern Europe and Southern Africa: Honeywell Ltd., Honeywell House, Arlington Business Park, Bracknell, RG 12 1EB, U.K.
Central Europe: Honeywell A.G., Kaiserleistraße 39, 63067 Offenbach, Germany
Western and Southern Europe: Honeywell S.A., Avenue du Bourget 1, 1140 Brussels, Belgium
Eastern Europe: Honeywell Praha, s.r.o., Budejovicka 1, 140 00 Prague 4, Czech Republic
Middle East: Honeywell Middle East Ltd., Khalifa Street, Sheikh Faisal Building, Abu Dhabi, U.A.E.