DPR 180 Digital Strip Chart Recorder:

High Performance for the Most Demanding Applications

The DPR 180 multipoint digital strip chart recorder offers the best price/performance ratio in the market today for 180 mm chart recording. It is able to monitor up to 24 analog and up to 36 digital inputs. It produces clear and fully documented charts, at any speed, and it provides an attractive presentation of the process data. Its large, bright display and fluorescent chart illumination provide clear viewing of displayed and printed data.

The DPR 180 is especially tailored to meet the needs of metal processing, pharmaceuticals, fine chemicals, food, environmental monitoring, power generation, and related process recording requirements.

Rugged and Reliable

The DPR 180 uses field-proven components and assemblies. Its modular design reduces spare parts inventories, simplifies maintenance, and significantly increases the recorder's ruggedness and reliability.

Easy to Configure and Operate

Full configurability is available in five languages as standard, either through the front keys, or by using the Honeywell LeaderLine PC Software via a front jack, or by using communication software. The DPR 180 firmware can be updated to the latest version by the front jack since the recorder uses state-of-the-art flash memory.

Outstanding Display Visibility

The large display (2 rows of 16 digits) is clearly visible from a considerable distance and the display brightness can be tailored to match customer needs.

Fully Documented Charts

The charts are fully documented with trace color assignment, alarm in red, tagging, zoning, zooming, trend or tabular print-outs, messages, and solid traces at virtually any chart speed, even for 24 traces. The functionality of the recorder allows the customer to easily customize the chart.

Low Cost Consumables

The longer length chart (115 feet/35 meters) helps reduce the maintenance costs of replacing charts. The chart cassette can use either fan-fold or roll charts, allowing you to switch charts as requirements change. The DPR 180 uses the same low cost, field-proven ink cartridge as the current DPR 3000. Honeywell charts fully conform with the DIN standard.

Worldwide Services

The Honeywell service organization is recognized as the best in the process control industry, with a truly worldwide network, fully trained service technicians, technical assistance, and spare parts availability.

Operation in Harsh Environments

With its galvanized steel case and chassis, reliable printing mechanism, IP54 front protection and full conformity with the CE directives, the DPR 180 will provide complete satisfaction for operation in harsh industrial environments, as do the other Honeywell recorders in the DPR family.
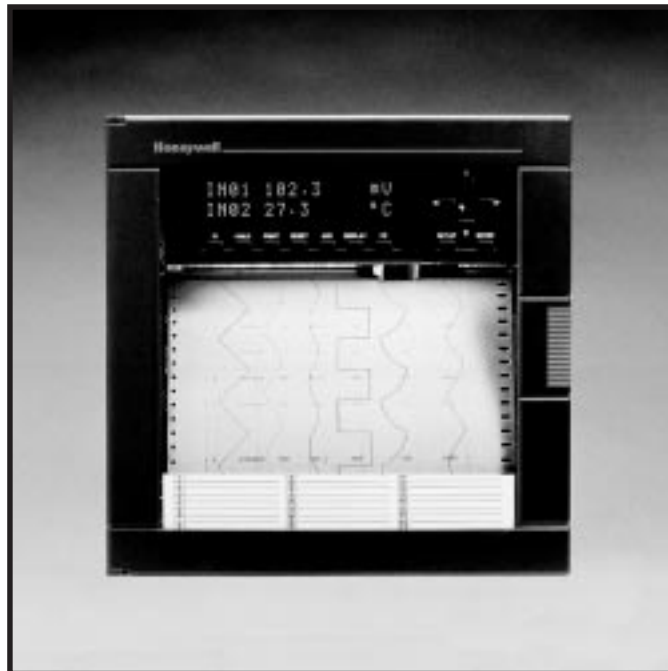
Complete Math Functions

Over 30 different math functions are available to enhance your data acquisition and recording needs, with the results traced, printed or retransmitted via a current output signal. Typical math functions are totalization, mass flow calculation, timers, counters, averages, minimum and maximum, and energy consumption.

Choice of Options

Numerous options are available on the DPR 180 such as logic inputs (and logic conditionals), alarm relay outputs, 4 to 20 mA current outputs, communication, and data logging on a PCMCIA memory card.

Call 1-800-288-7491 for more information or contact your local Honeywell distributor.

Condensed Specifications

Technology	32 bit microprocessor, flash memory, solid state input relays
Universal Inputs	4 to 24 analog inputs, all major thermocouples and RTD's, mV, Volts and mA signals, with a wide choice of ranges, the spans being adjustable within the ranges. Typical scan time: 1 second for 20 inputs.
Accuracy	$< \pm 0.05\%$ of the selected range, at reference conditions.
Universal Power Supply	100 to 240 VAC/DC +10-15% (24 VAC/DC on request).
Chart Cassette	Roll or fan-fold (115 ft/35 m) on the same cassette.
Chart Speed	Up to 200 in./hr. (5000 mm/hr.). Full chart documentation up to 40 in./hr. (1000 mm/hr.).
Logic Inputs (option)	6 to 36 logic inputs, and 20 logic conditionals which can trigger, change speed, digital print-out, message, math result, range, relay output, etc.
Alarm Relay (option)	Up to 48 alarm setpoints, and up to 36 relays.
Communication (option)	RS232: ASCII - RS422/485: ASCII, MODBUS RTU. AUTODIAL via an external modem. PC supervision software: monitoring, archiving, configuring, messaging.
Retransmission (option)	Up to eight 4 to 20 mA outputs: retransmission of inputs, math result, program profile, etc.
Math Functions (option)	Square root and channel difference; standard. Basic arithmetics, Fo, totalization, mass flows, energy consumption, averages, timers, min., max., carbon potential, RH, etc., and up to 6 setpoint programs.
Data Logging (option)	On PCMCIA: PV's, math results, recorder configurations.
Periodic Reports	On chart, communication, or PCMCIA.
CE Mark Compliant	Full conformity with CE directives.

Product Dimensions

Front Face	310 x 317 mm (12.2 x 12.5 inches), cut-out 278 x 278 mm (10.94 x 10.94 inches). IP54 protection
Depth	320 mm (12.6 inches) including the rear cover.
Weight	16 kg (39 lb.)
Mounting	Panel mounting, $\pm 30°$ from the horizontal.
Temperature Limits	0° to 50°C (32° to 120°F)
Humidity	10 to 90% RH at 25°C (77°F)
Vibration	2.5 mm for 0 to 14 Hz (peak to peak), 1 g for 14 to 250 Hz

Distributor:

Honeywell