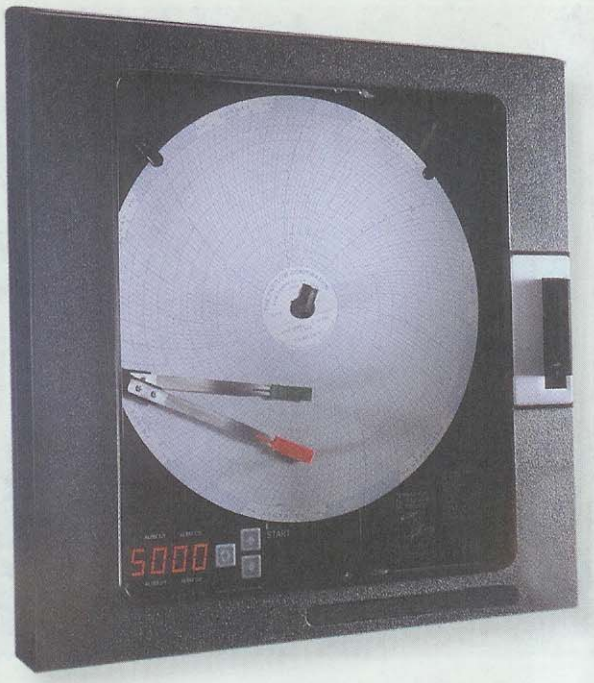
Programmable 10" Circular Chart Recorder



These recorders are designed with the latest innovation in recording technology, enclosures and functionality. Finding a place to install this recorder is easy, with its compact 2.5" panel depth and short 1.3" protrusion from the front of the panel. It can be panel or surface mounted. The cutout size is the commonly utilized 12.7" square cutout.

- 1 or 2 trend pen versions
- 4 digit red LED display
- High/Low limit capability available
- Universal Inputs
- Up to 2 alarms per pen
- Universal power supply
- Communications

Catalog No.	Description
PL1487301	1 Channel Recorder NEMA 3 Case with Alarms/Relays
PL1487311	2 Channel Recorder NEMA 3 Case with Alarms/Relays
PL148732	1 Channel Recorder NEMA 3 Case with Alarms & 2 Relay Outputs
PL148733	2 Channel Recorder NEMA 3 Case with Alarms & 2 Relay Outputs per Channel
NISTDL01	NIST Traceable Certificate
NISTDL02	NIST Traceable Certificate with Data

Charts — Box of 100

Range	12 hour	24 hour	7 day
0 to 14 pH	–	PL214417	PL214416
0 to 100	PL213824	PL00213825	PL00213826
0 to 200	PL213819	PL213801	PL213806
0 to 400	PL214410	PL213802	PL213807
0 to 1000	–	PL213820	PL213821
0 to 2000	–	PL213810	PL213813
30 to 230 F	PL213831	PL213832	PL213814

SPECIFICATIONS

Recording

Pen Type	Disposable fiber tip
Pen Color	Pen 1 - Red Pen 2 - Green
Chart Size	10 inch
Chart Drive	Stepper motor
Chart Rotation	User configurable; 8 hour, 12 hour, 24 hour or 7 day
Chart Span	Bottom and top of span, -9999 to 9999 units

Inputs

Input Types/Range	Type	Range	
Thermocouple	J	0°C to 70°C	0°F to 1400°F
	K	0°C to 1360°C	0°F to 2500°F
	T	-200°C to 400°C	-330°F to 750°F
	R	200°C to 1650°C	400°F to 3000°F
	S	200°C to 1650°C	400°F to 3000°F
RTD	100 ohm Platinum .00385 ohms/ohm/°C	-140°C to 400°C	-220°F to 750°F
Current DC	0 to 20mA, 4 to 20mA Internal 4.7 ohm Shunt Resistor		
Voltage DC	0 to 25mV, 0 to 50mV, 10 to 50mV, 0 to 5 V, 1 to 5 V		

Input Performance

Performance Under Reference Condition

Measurement Error	Type J, K, T, R, S and RTD: ± 0.25% of span ± 1 degree mA, mV and VDC: ± 0.25% of scaled span plus 1 least significant digit
Cold Junction Compensation Error	± 0.2°C @ 25°C
Cold Junction Compensation Rejection	0.04°/°C deviation from 25°C
Linearization Error expectations	TCs: ± 0.25°C typical, ± 0.5°C worst case with RTDs: ± 0.1°C typical, ± 0.3°C worst case
Ambient Temperature Error	± 0.01% of span per °C deviation from 25°C

Power Requirements

Line Voltage	90-264 VAC, 50/60 Hz
Power Consumption	18 VA Maximum

Construction

Enclosure	Injection molded Noryl case and cover with acrylic window
NEMA Rating	NEMA 3 standard
Mounting	Panel or wall
Overall Dimensions	14" wide x 14" high x 3.8" deep (355.6mm x 355.6mm x 96.5mm)
Panel Cutout	12.7" wide x 12.7" high (322.58mm x 322.58mm)
Panel Depth	2.5" (63.5mm)
Panel Protrusion	1.3" (33.0mm)
Weight	15 lbs maximum

Alarms

Number	Up to two process alarms for each of two inputs
Type	Process high or low
Limit Device output	Optional high/low limits for each input with latching Normally open output latches open Red reset button included to the right of the display
Hysteresis	Fully adjustable, 0 to 200 units, single sided
Security	Alarm setpoint changes can be prohibited
Sensor Fault Action	Alarms work normally in "Hi" and "Lo" conditions

Relay Outputs

Relays	SPDT, contacts rated 5 amps resistive at 115 VAC, 2.5 amps resistive at 230 VAC, 1/8 HP at 230 VAC (single phase), 250 VA at 115/230