with data storage and event logging

The most popular 6" circular chart recorder of CR2010 series, is also available with internal memory of 64KB to store data up to 14 days at 5minute store interval. This recorder is specifically tailored to monitor the blood bank refrigerator temperature data. This recorder also has an input for Door Open switch. Since door opening and closing is very frequent during the removal of the stored blood, it is very easy to monitor how often and for how much time the door was left open with this recorder. This recorder uses pressure sensitive chart paper so there is no need to replace the pen. There is also no smudging of the ink, and since the paper used is pressure-sensitive rather than thermal, the durability of the recordings is significantly increased. Mains failure and return is also logged. Recorder comes with a built-in battery back up to ensure the proper working in case of power failure. Most other features are similar to the standard CR2010 6" recorder.

Features:

- 6" Chart Width
- Inkless chart recorder
- LCD Display
- Real Time Clock
- Data Storage 64KB of memory
- Event Logging like Power Fail/Restore, Door Open/Close, Alarm Set/Reset
- Storage of 14 days of data at 5min store interval
- USB port to communicate with PC
- BBR-Chart Application to download data
- Generate Reports from BBR-Chart
- Single Analog Input channel
- Direct Input standard PT-100 sensor
- Chart Speed of 7D/Rev
- Universal Power Supply 85-264 V AC, 47-63 Hz
- Battery Back up

Specifications:

No. of Pens 1 — Suitable for marking on Pressure Sensitive Paper

Pen Marking Continuous
Pen Response Time <5Sec (Full Scale)

Pen Resolution Stepper Motor Controlled better than 0.1% FSD

Overshoot None

Chart:

Chart Speed 7D/Rev
Chart Calibrated Radius 2.3" (approx. 59mm)
Chart Ranges Programmable

Display, Operator Panels and Input:

Display Type 3½ digit LCD

Status Indicator RTC, Batch Status, Battery Status

Panel Keys Front panel KB consisting of 3 keys for programming and

calibration

Analog Input RTD PT-100
Sensor Type and Range Refer to Table 1

Scan Rate Continuous 1 reading per second

Memory:

Memory Size 64K

Data Storage Up to 14 days at 5min Store Interval

Alarm Records Yes (Going out of limit and coming back to limit is considered

as one alarm record)

Record for Door Open / Close Yes Mains Failure Record Yes

Memory Type Cyclical — Most recent data is always available

User Settable Parameters for Recording:

Alarm Condition 1 to 99 mins; user settable (through PC)

Occurrence Time Delay When the temperature remains out of limit for more than set

time then only the alarm condition is assumed.

Settable from Keyboard in DD/MM/YY/HR/MN format

Door Open/Close Input through Potential Free contact.

Communication:

Real Time Clock (RTC)

Communication Type USB 2.0

PC Application BBR-Chart[™] to download data; Configure recorder and

generate report.







Protection:

Input Impedance $> 20 \text{ M}\Omega$

CMRR >100 dB@ 50, 60 Hz at 3 Sample per Second NMRR >50 dB@ 50, 60 Hz at 3 Samples per Second

Maximum Common Mode Voltage 5 V AC

Isolation Channel – Earth 1.5KV 1 minute

Isolation Channel — Channel NA

Input Protection 30 V AC/DC max

Termination Non interchangeable, Removable Plugs

Environmental:

Temperature (Operation)5°C to 45°C

(Limiting) 0°C to 50°C (Storage)-20°C to 60°C

Humidity (Operation) 10 to 80 % RH Non-Condensing

(Storage) 5 to 90 % RH Non-Condensing

Altitude <2000 meter

Power Requirement:

Supply Voltage (Mains Operated) 85-264 V AC 47-63Hz

Battery backup Yes DC Adapter Operated Yes

Power 15 W Max with Maximum Configuration

Fuse Type None

Battery Backup 7 Ah 12 V, 1.4 A External Lead Acid Battery

Battery Charger Yes
Battery Reverse Polarity Protected
Minimum Back up >72 Hours

Safety Standards:

Safety IEC 61010-1 EMI-EMC EN 61326-1 Class A

Pollution Degree II Installation Category III

 Vibration
 2g Peak (10 Hz-150Hz)

 Shock
 IEC61010-1

IP Rating IP50 (Door and Bezel only)

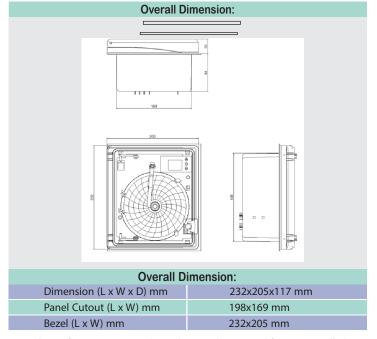
Input Type	Valid Input Range	Resolution Chart	Accuracy
PT-100(RTD)	-100 to +600°C	2%	+/- 0.5% FSD

Table 2: Chart type of Chart Recorder:

Sr. No. (XX) Range**	Speed	Size	Part No.	Part Description
21	0 to +100	24H	6"	304001	D60100
22	0 to +150	24H	6"	304002	D60150
23	0 to +200	24H	6"	304005	D60200
24	0 to +300	24H	6"	304008	D60300
25	-50 to +50	24H	6"	304016	D6-50+50
26	0 to +160 & -1 to 3	24H	6"	304004	D60160&-1+3
27	+90 to +140	4H	6"	305001	4H90140
28	0 to +100	7 Day	6"	307001	W60100
29	-50 to +50	7 Day	6"	307010	W6-50+50
30	+50 to -50	7 Day	6"	307009	W650-50
31	-100 to +50	7 Day	6"	307005	W6-100+50
32	+50 to -100	7 Day	6"	307008	W650-100
33	+40 to -10	7 Day	6"	307007	W640-10
34	0 to +50	7 Day	6"	307004	W6050
35	0 to +10	7 Day	6"	307012	W6010
36	+20 to -10 (PS)	7D	6"	308009	W620-10PS
37	+50 to -100 (PS)	7D	6"	308008	W650-100PS
39	+40 to -10 (PS)	7D	6"	308003	W640-10PS
40	-50 to + 50 (PS)	7D	6"	210042	W6-5050PS
50	Other Please Specify				

^{**} First value in the chart is at the center of the Chart.

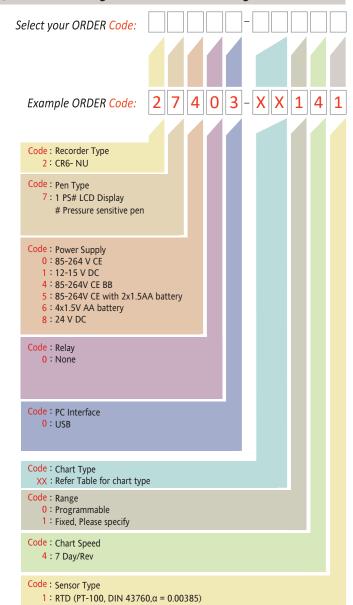
[#] PS: Pressure Sensitive Chart



^{*}Actual specification may vary depending on the optional features installed.

Dealer / Representative

The specifications given above are an overview, and may be or may not be available in all product variants, or at an additional cost. The company reserves the right to change the specifications without prior notice, as the company follows a continual improvement philosophy for its products.









Manufacturers of :

Circular Chart Recorders

Inkless Recorders

Paperless Recorders

Scanners & Data Loggers

Networked Data Loggers

Application SoftwareWeb based DAQ

Vaccine Series Data Loggers

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^{**} Chart range low and chart speed are fixed as per the order code.

^{**}Refer to the back panel of recorder for exact rating.